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Thesis

WHAT EFFECT HAS THE ARITHMETIC IN FOUR GENERAL INTELLIGENCE TESTS UPON THE FINAL SCORES IN THE TESTS

Submitted by

Rose Goren

(B.S. in Ed., Salem Teachers College 1932)

In partial fulfillment of requirements
for the degree of
Master of Education

1936

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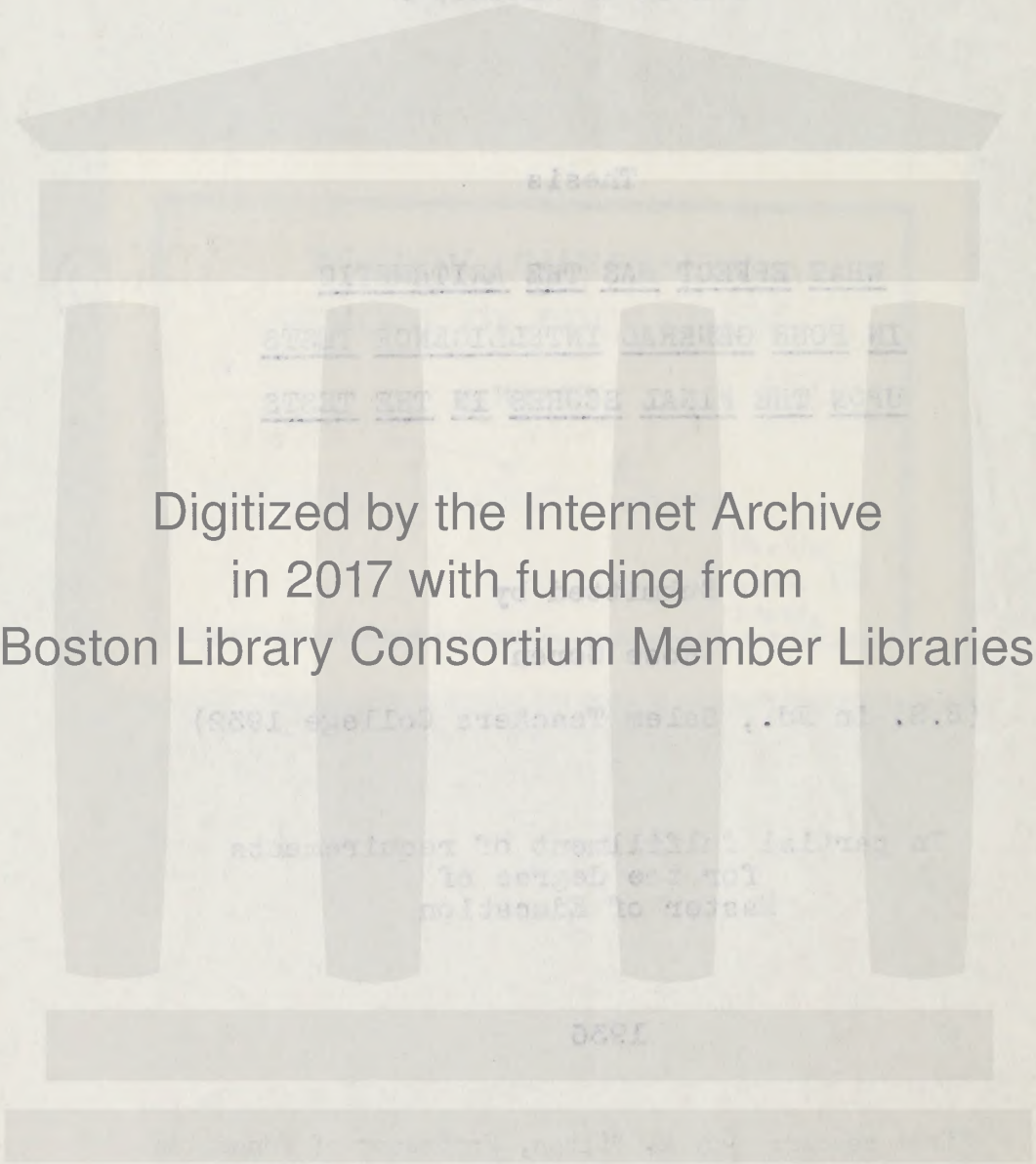

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Chapter I

STATEMENT OF THE PROBLEM

Research has shown that there is enough reading in the Terman-Binet Intelligence Test to give a child a reduced score if his reading ability is low. (Reference #3) [1]

The writer raises the question in this thesis as to what effect the arithmetic sections of group intelligence tests have on the final score on such tests. It is realized that this study is not all-inclusive and leaves many related problems entirely untouched.

The tests used in this study are National Intelligence Tests Scale A-Form I; Terman Group Test of Mental Ability; Revised Alpha Examination Form 7; and Kuhlman-Anderson Intelligence Test. After ascertaining that the data from these particular tests could be secured, the writer wrote to the authors of these tests making inquiries about the arithmetic in the respective tests, using the three questions which follow:

1. On what basis were the elements of arithmetic selected for the intelligence test?
2. What was the deciding factor in determining whether the arithmetic should be of a problem type or just simply some of the four fundamentals in arithmetic-addition, subtraction, multiplication, and division?
3. Arithmetic is usually a difficult subject for people. Why was it selected as one of the elements in an intelligence test?

---

1. References are found in the bibliographies with numbers corresponding. (See page 67)

Replies were received from Dr. Otis, Dr. Terman, and Dr. Bolstad. The following are quotations from the letters received:

Dr. Otis wrote as follows: "I would answer by saying that since I did not make the selection myself (in the National and Terman Tests) I can only infer what reasons the authors had for putting arithmetic problems in their intelligence tests.

"Perhaps I might explain why I have used arithmetic problems in my own intelligence tests. I did so because after trying out about sixteen different types of questions, all of which I thought might measure intelligence to some extent, I found that the ten best types of intelligence tests included the arithmetic.

"My criterion of whether the test measured intelligence was partly correlation between scores in that test and scores in all the tests together (this in order to determine whether the test measured some special ability or a general ability), and partly whether pupils of a given age who did best in the test were also making the most rapid progress through school.

"I think you will agree that ability to work an example in arithmetic (mere computation) is largely a matter of habit and memory--memory of the addition facts, subtraction facts, and so on--and routine of procedure, whereas problem solving calls for a 'higher type' of thinking--the type of thinking more nearly what we have in mind when we talk about

intelligence. Moreover, the kind of reasoning used in arithmetic problems solving undoubtedly has much in common with the ability to learn to read, to spell, and to succeed in the other subjects taught in school..."

Dr. Terman wrote: "The arithmetic elements of my group test were submitted from a much larger number which were tried out. The criterion for retention of an item was that it should correlate as highly as possible with a positive outside criterion of intellectual ability."

"Arithmetic problems have always shown much higher correlation with other intellectual measurements that mere computation..."

Dr. Bolstad, who cooperated in constructing the Kuhlmann-Anderson Tests wrote: "In the selection of all of the tests included in the Kuhlmann-Anderson Tests one factor played by far the biggest part, namely, ability to discriminate. If anything in arithmetic played that part, then the arithmetic was included. If it would not show capacity to discriminate then it was thrown out. An intelligence test that does not discriminate is not intelligence test at all."

"The Kuhlmann-Anderson Tests constitute an outgrowth of experimental work that at first included a large variety of items, and a large variety of individual tests. The tests that finally appear and contain arithmetic figures is a survival of the fittest..."

These letters indicate slightly different view-points and procedures on the selection of elements or section of the

tests which were studied. However, it is not proposed to discuss the differing view points brought out by these letters.

In setting up the present study the writer thought to secure about two hundred and fifty test returns on each of the four tests chosen. The numbers vary slightly from the initial set up, but the total returns on the four tests exceed one thousand, distributed over Grades IV to XII.[1]

It is considered an advantage that the tests were given by others and the task, therefore, was simply to evaluate the results.

The method pursued is developed in the next section.

The problem taken for study was "Do the arithmetic scores in these four general intelligence tests throw the scores in one direction or another?", or to put it differentyly, "If the plus and minus results due to leaving out the arithmetic are charted, does it give a normal curve centered over zero or what does it give?"

The work involved in this thesis is more or less technical and no attempt has been made to simplify it so that it may be understood by one who has not gone a considerable distance into psychometrics.

1. The writer is under obligation to field workers for permission to use test files, as follows:

Kindness of Dr. Walter F. Dearbon
Revised Army Alpha Examination-Grade XII

Kindness of Miss Eleanor H. Hayes
Nat'l. Intelligence Test-Scale A, Form I, Grades IV,V,VI, VII
Terman Group Tests of Mental Ability-Grade IX
Kuhlmann-Anderson Intelligence Test-Grade VI

Kindness of Miss Nellie Power
National Intelligence Test-Grade VII

CHAPTER II

METHOD AND PROCEDURE

Permission was secured from school departments or directors of measurement in nearby cities which made files availabe on tests actually given and used in the respective school departments.[1]

A general scheme was worked out for tabulating data from the tests, and this scheme becomes apparent on examination of the tables. (Tables IA, pages 7-12; IB, pages 19-25; IC, pages 31-36; ID, pages 42-47). Having determined the part of the test that involved the arithmetic, it was then possible to draw off further data for each student, called "candidate". (Column 1, Tables IA, pages 7-12; Table IB, pages 19-25; Table IC, pages 31-36; Table ID, pages 42-47).

The total test scores including arithmetic of each candidate, occur in column 2 of Tables IA, pages 7-12; IB, pages 19-25; and IC, pages 31-36 for these of the tests--National Intelligence Test, Terman Group Test of Mental Ability, and Revised Army Alpha Examination respectively.

Arithmetic scores of each candidate appear in column 3 of Table IA, pages 7-12 for the National Intelligence Test; and Table IB, pages 19-25 for the Terman Group Tests of Mental Ability. For the Revised Army Alpha Examination the data may be found in Table IC, pages 31-36, columns 3,4,5,6 and making a total arithmetic score in column 7.

1. Dr. Walter F. Dearborn — Medford High School
   Harvard University
   Tests given in 1932-33

   Miss Eleanor H. Hayes — Belmont Schools
   Tests given in 1928

   Miss Nellie Power — Belmont Schools
   Tests given in 1926

The chronological age of each candidate is listed in Table IA, pages 7-12, column 5 and 6 for the National Intelligence Test; Table IB, pages 19-25, column 5 and 6, for the Terman Group Tests of Mental Ability; Table IC, pages 31-36, column 9 and 10, for the Revised Army Alpha Examination; Table ID, pages 42-47, column 2a and b, Kuhlmann-Anderson Intelligence Tests.

Using the above data as a basis, it was then possible to extend Table IA, pages 7-12; IB, pages 19-25; IC, pages 31-36; ID, pages 42-47; through the rest of the columns by a process of reduction or interpretation of scores from tables accompanying the tests.

The National Intelligence Test consists of five sections. The scores made in each section however, may be increased or decreased, i.e. weighted on the final score for the test. The scoring scheme for the National Intelligence Test is as follows:

Section	Rights	Weighting	Score
1	16	x 2	32
2	20	x 2	40
3	24	-	24
4	40 - (wrong)	-	40
5	120	x 3/10	36
	Total sum of five sections----------		172

The possible score on the test is 172. The section containing the arithmetic is Section I with a possible weighted score of 32. The arithmetic is therefore $\frac{32}{172}$ or 18.6% of the total score. This becomes a basis for figuring a new table of values for interpreting the intelligence (Continued on page 13)

Table IA (See Text)

National Intelligence Tests Scale A-Form I

AN INTENSIFIED SUMMARY OF RESEARCH INFORMATION

1. Can-didate	2. Test Scrs with Arith	3. Arth. Scrs	4. Test Scrs. no Arth.	5. C.A. Mths	6. C. A. Yr.	Mo.	7. M.A. with Arth. Mos.	8. M. A. with Arth. Yr.	Mo.	9. M.A. no Arth Mos	10 M. A. no Arth. Yr.	Mo	11. I.Q. with Arth	12. I.Q. no Arth	13. Diff. in I.Q.
1	167	20	147	159	13	3	206	17	2	220	18	4	130	138	8
2	148	20	128	143	11	11	187	15	7	197	16	5	131	138	7
3	147	16	131	191	15	11	186	15	6	201	16	9	97	105	8
4	139	16	123	144	12	0	178	14	10	191	15	11	124	133	9
5	136	14	122	140	11	8	175	14	7	190	15	10	125	136	11
6	136	20	116	127	10	7	175	14	7	182	15	2	138	143	5
7	135	20	115	153	12	9	174	14	6	181	15	1	114	118	4
8	134	14	120	175	14	7	173	14	5	187	15	7	99	107	8
9	130	14	116	178	14	0	169	14	1	182	15	2	95	102	7
10	129	24	105	168	14	0	168	14	0	168	14	0	100	100	0
11	128	20	108	160	13	4	167	13	11	172	14	4	104	107	3
12	124	16	108	167	13	11	162	13	6	172	14	4	97	103	6
13	122	22	100	181	15	1	160	13	4	162	13	6	88	90	2
14	121	16	105	160	13	4	160	13	4	169	14	1	100	106	6
15	119	16	103	161	13	5	158	13	2	166	13	10	98	103	5
16	118	16	102	171	14	3	157	13	1	165	13	9	92	97	5
17	118	10	108	163	13	7	157	13	1	172	14	4	96	105	9
18	118	16	102	168	14	0	157	13	1	165	15	9	93	98	5
19	115	14	101	154	12	10	155	12	11	163	13	7	101	107	6
20	115	14	101	156	13	0	155	12	11	163	13	7	99	105	6
21	115	18	97	150	12	6	155	12	11	159	13	3	103	106	3
22	114	14	100	173	14	5	154	12	10	162	13	6	89	94	5
23	114	10	104	167	13	11	154	12	10	169	14	1	92	101	9
24	113	12	101	194	16	2	153	12	9	163	13	7	79	84	5
25	110	18	92	173	14	5	151	12	7	154	12	10	87	89	2
26	110	16	94	167	13	11	151	12	7	156	13	0	90	93	3
27	107	14	93	157	13	1	148	12	4	155	12	11	94	99	5
28	104	8	96	180	15	0	146	12	2	158	13	2	81	88	7
29	103	16	87	184	15	4	145	12	1	149	12	5	79	81	2
30	101	14	87	173	14	5	144	12	0	149	12	5	83	86	3
31	99	16	83	157	13	1	142	11	10	145	12	1	90	92	2
32	95	10	85	166	13	10	139	11	7	146	12	2	84	88	4
33	93	12	81	149	12	5	138	11	6	143	12	3	93	99	6
34	87	14	73	153	12	9	134	11	2	136	11	4	88	89	1
35	85	16	69	153	12	9	132	11	0	132	11	0	86	86	0
36	82	12	70	162	13	6	131	10	11	134	11	2	81	83	2
37	81	6	75	186	15	6	130	10	10	138	11	6	70	74	4
38	77	16	61	180	15	0	127	10	7	126	10	6	71	64	-1
39	74	14	60	197	16	5	125	10	5	125	10	5	63	64	1
40	170	20	150	148	12	4	209	17	5	224	18	8	141	150	9
41	147	16	131	163	13	7	186	15	6	201	16	9	114	123	9
42	144	18	126	178	14	10	183	15	3	195	16	3	103	110	7
43	139	18	121	146	12	2	178	14	10	188	15	8	122	129	7
44	139	16	123	156	13	0	178	14	10	191	15	11	114	122	8
45	137	16	121	167	13	7	176	14	8	188	15	8	108	115	7

AN INTENSIFIED SUMMARY OF RESEARCH INFORMATION

National Intelligence Tests Scale A-Form 1

Date	Cen-	1.	2.	3.	4.	5.	6.	7.	8.	9.	10	11.	12.	13.
with	tile	Test												
Score		M.A.	M. A.	M.A.	M. A.	I.Q.	I.Q.	Dif.						
Score		C.A.	C. A.	with	with	no	no	with						
no		Yr.Mo.	Yr.Mo.	Arth.	Arth.	Arth.	Arth.	Arth!						
Arith!		Arth.				Yr.Mo.	Mos.							

1	167	20	147	159	13	3	206	17	2	220	18	4	130	138
2	148	20	128	143	11	11	187	15	7	197	16	5	131	139
3	147	16	131	191	15	11	186	15	6	201	16	9	97	105
4	139	16	125	144	12	0	178	14	10	191	15	11	124	135
5	136	14	122	140	11	8	175	14	7	190	15	10	125	136
6	136	20	116	127	10	7	175	14	7	182	15	2	136	143
7	135	20	115	153	12	9	174	14	6	181	15	1	114	118
8	134	14	120	175	14	7	173	14	5	187	15	7	99	107
9	130	14	116	178	14	0	169	14	1	188	15	2	95	102
10	129	24	105	108	14	0	168	14	0	168	14	0	100	100
11	128	20	108	160	13	4	167	13	11	172	14	4	104	107
12	124	16	108	107	13	11	162	13	6	172	14	4	97	103
13	122	22	100	181	15	1	160	13	4	162	13	0	88	90
14	121	16	105	160	13	4	160	13	4	109	14	1	100	106
15	119	16	103	101	13	5	158	13	2	106	13	10	98	103
16	118	16	102	171	14	3	157	13	1	105	13	9	92	97
17	118	10	108	105	13	7	157	13	1	172	14	4	96	105
18	118	16	102	168	14	0	157	13	1	105	13	9	93	98
19	115	14	101	154	12	10	155	12	11	103	13	7	101	107
20	115	14	101	150	13	0	155	12	11	103	13	7	99	105
21	115	18	97	150	12	6	155	12	11	159	13	3	103	106
22	114	14	100	173	14	5	154	12	10	162	13	6	89	94
23	114	10	104	107	13	11	154	12	10	109	14	1	92	101
24	113	12	101	194	16	2	153	12	9	103	13	7	79	84
25	110	18	92	173	14	5	151	12	7	154	12	10	87	89
26	110	16	94	107	13	11	151	12	7	156	13	0	90	93
27	107	14	93	157	13	1	148	12	4	155	12	11	94	99
28	104	8	96	180	15	0	146	12	2	158	13	2	81	88
29	103	16	87	184	15	4	145	12	1	149	12	5	79	81
30	101	14	87	173	14	5	144	12	0	149	12	5	83	86
31	99	10	89	157	13	1	142	11	10	145	12	1	90	92
32	95	10	85	160	13	10	139	11	7	140	12	5	84	88
33	93	12	81	149	12	5	138	11	6	143	12	3	93	99
34	87	14	73	153	12	9	134	11	2	136	11	4	86	89
35	85	16	69	153	12	9	132	11	0	132	11	0	86	86
36	82	12	70	162	13	6	131	10	11	134	11	2	81	83
37	81	6	75	186	15	6	130	10	10	138	11	6	70	74
38	77	16	61	180	15	0	127	10	7	126	10	6	71	64
39	74	14	60	197	16	5	125	10	5	125	10	5	65	64
40	1705	20	150	148	12	4	209	17	5	224	18	8	141	150
41	147	16	131	163	13	7	186	15	6	201	16	9	114	123
42	144	18	126	178	14	10	183	15	3	195	16	3	103	110
43	139	18	121	146	12	2	178	14	10	188	15	8	122	129
44	139	16	125	150	13	0	178	14	10	191	15	11	114	122
45	137	16	121	107	13	7	176	14	8	188	15	8	108	115

National Intelligence Tests (Continued)

Table I A

1. Candidate	2. Test Scrs with Arth	3. Arth Scrs	4. Test Scrs no Arth.	5. C.A. Mths	6. C. A. Yr.	6. C. A. Mo.	7. M.A. with Arth Mos	8. M.A. with Arth. Yr.	8. M.A. with Arth. Mo.	9. M.A. no Arth Mos	10. M. A. no Arth. Yr.	10. M. A. no Arth. Mo.	11. I. Q. with Arth.	12. I.Q. no Arth.	13. Diff. in I.Q.
46	136	14	122	161	13	5	175	14	7	195	16	3	109	121	12
47	136	18	118	180	15	0	175	14	7	185	15	5	97	103	6
48	136	16	120	158	13	2	187	15	7	191	15	11	118	121	3
49	132	20	112	155	12	11	172	14	4	183	15	3	111	118	7
50	132	18	114	159	13	3	172	14	4	185	15	5	108	116	8
51	130	16	114	154	12	10	169	14	1	185	15	5	110	120	10
52	129	16	113	148	12	4	168	14	0	184	15	4	114	124	10
53	129	22	107	154	12	10	168	14	0	178	14	10	109	116	7
54	127	16	111	170	14	2	166	13	10	182	15	2	98	107	9
55	127	20	107	160	13	4	166	13	10	178	14	10	104	111	7
56	126	18	108	163	13	7	165	13	9	179	14	11	101	110	9
57	124	20	104	155	12	11	162	13	6	175	14	7	105	113	8
58	121	16	105	164	13	8	160	13	4	176	14	8	98	107	9
59	117	18	99	167	13	11	156	13	0	170	14	2	93	102	9
60	115	14	101	153	12	9	155	12	11	172	14	4	101	112	11
61	114	16	98	152	12	8	154	12	10	169	14	1	101	111	10
62	113	14	99	155	12	11	153	12	9	170	14	2	99	109	10
63	112	18	94	173	14	5	152	12	8	165	13	9	88	96	8
64	112	20	92	171	14	3	152	12	8	162	13	6	89	95	6
65	109	18	91	175	14	7	150	12	6	161	13	5	86	92	6
66	109	16	93	149	12	5	150	12	6	163	13	7	101	109	8
67	109	16	93	155	12	11	150	12	6	163	13	7	97	105	8
68	108	14	94	173	14	5	149	12	5	165	13	9	86	95	9
69	106	16	90	144	12	0	147	12	3	160	13	4	102	111	9
70	105	14	91	152	12	8	146	12	2	161	13	5	96	106	10
71	99	14	85	162	13	6	142	11	10	156	13	0	88	96	8
72	96	16	80	167	13	11	140	11	8	152	12	8	84	91	7
73	94	16	78	200	16	8	138	11	6	151	12	7	69	76	7
74	90	16	74	169	14	1	136	11	4	147	12	3	81	87	6
75	87	4	83	179	14	11	134	11	2	155	12	11	75	87	12
76	86	10	76	192	16	0	133	11	1	149	12	5	69	78	9
77	84	10	74	171	14	3	132	11	0	147	12	3	77	86	9
78	80	4	76	167	13	11	129	10	9	149	12	5	77	89	12
79	76	10	66	162	13	6	126	10	6	142	11	10	78	88	10
80	68	8	60	183	15	3	119	9	11	137	11	5	65	75	10
81	115	16	99	125	10	5	155	12	11	160	13	4	124	128	4
82	127	16	111	133	11	1	166	13	10	176	14	8	125	132	7
83	109	14	95	128	10	8	150	12	6	156	13	0	117	122	5
84	116	16	100	155	12	11	156	13	0	161	13	5	101	104	3
85	93	12	81	122	10	2	138	11	6	143	11	11	113	117	4
86	129	20	109	123	10	3	168	14	0	174	14	6	137	141	4
87	99	18	81	135	11	3	142	11	10	143	11	11	105	106	1
88	118	16	102	128	10	8	157	13	1	165	13	9	123	129	6
89	101	12	89	121	10	1	144	12	0	151	12	7	119	125	6
90	118	20	98	127	10	7	157	13	1	160	13	4	124	126	2

National Intelligence Tests (Continued)
Table I A

1. Candidate	2. Test Scrs with Arth	3. Arth Scrs	4. Test Scrs no Arth.	5. C.A. Mths	6. C. A. Yr.	Mo.	7. M.A. with Arth Mos	8. M. A. with Arth. Yr.	Mo	9. M.A. no Arth. Mos.	10. M. A. no Arth. Yr.	Mo	11. I. Q. with Arth.	12. I. Q. no Arth.	13. Diff. in I.Q.
91	117	18	99	123	10	3	156	13	0	160	13	4	127	130	3
92	150	18	132	134	11	2	189	15	9	202	16	10	141	151	10
93	115	18	97	130	10	10	155	12	11	159	13	3	119	122	3
94	137	16	121	125	10	5	176	14	8	188	15	8	141	150	9
95	125	16	109	129	10	9	163	13	7	174	14	6	126	135	9
96	95	10	85	147	12	3	139	11	7	146	12	2	95	99	4
97	109	12	97	124	10	4	150	12	6	159	13	3	121	128	7
98	115	16	99	133	11	1	155	12	11	160	13	4	117	120	3
99	123	14	109	138	11	6	161	13	5	174	14	6	117	125	8
100	77	10	67	138	11	6	127	10	7	131	10	11	92	95	3
101	136	14	122	122	10	2	175	14	7	190	15	10	143	155	12
102	137	16	121	125	10	5	176	14	8	188	15	8	141	150	9
103	115	18	97	130	10	10	155	12	11	159	13	3	119	122	3
104	150	18	132	134	11	2	189	15	9	202	16	10	141	151	10
105	117	18	99	123	10	3	156	13	0	160	13	4	127	130	3
106	108	8	100	126	10	6	149	12	5	161	13	5	118	128	10
107	91	14	77	125	10	5	137	11	5	139	11	7	110	111	1
108	118	6	112	140	11	8	157	13	1	177	14	9	112	126	14
109	103	14	89	127	10	7	145	12	1	151	12	7	114	119	5
110	114	14	100	114	9	6	154	12	10	162	13	6	135	141	6
111	155	18	137	122	10	2	194	16	2	208	17	4	159	170	11
112	107	16	91	126	10	6	148	12	4	153	12	9	117	121	4
113	85	10	75	129	10	9	132	11	0	138	11	6	102	107	5
114	139	18	121	121	10	1	178	14	10	188	15	8	147	155	8
115	116	16	100	129	10	9	156	13	0	162	13	6	121	125	4
116	103	14	89	157	13	1	145	12	1	151	12	7	92	96	4
117	113	16	97	125	10	5	153	12	9	159	13	3	122	127	5
118	119	14	105	127	10	7	158	13	2	169	14	1	124	132	8
119	91	8	83	139	11	7	137	11	5	145	12	1	99	104	5
120	147	20	127	146	12	2	186	15	6	196	16	4	127	134	7
121	103	20	83	131	10	11	145	12	1	145	12	1	111	111	0
122	95	12	83	122	10	2	139	11	7	145	12	1	114	118	4
123	130	16	114	141	11	9	169	14	1	180	15	0	120	128	8
124	103	14	89	131	10	11	145	12	1	151	12	7	111	115	4
125	141	18	123	130	10	10	180	15	0	191	15	11	138	147	9
126	114	14	100	138	11	6	154	12	10	162	13	6	112	117	5
127	82	14	68	144	12	0	131	10	11	132	11	0	91	92	1
128	134	16	118	143	11	11	173	14	5	185	15	5	121	129	8
129	121	14	107	128	10	8	160	13	4	171	14	3	125	134	9
130	132	14	118	129	10	9	171	14	3	185	15	5	133	143	10
131	137	18	119	130	10	10	176	14	8	186	15	6	135	143	8
132	102	16	86	138	11	6	144	12	0	147	12	3	104	107	3
133	114	16	98	129	10	9	154	12	10	160	13	4	119	124	5
134	107	16	91	124	10	4	148	12	4	153	12	9	119	123	4
135	138	16	122	138	11	6	177	14	9	190	15	10	129	137	8

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.
91	117	18	99	129	10	3	136	13	4	127	130	6	14	10	3	136
92	150	16	132	134	11	2	139	15	9	102	16	10	141	151	10	2
93	115	18	97	130	10	10	135	12	11	139	13	3	119	132	3	10
94	137	16	121	125	10	5	129	14	8	138	15	8	141	150	9	3
95	125	16	109	129	10	9	129	13	7	134	14	6	120	135	9	4
96	95	10	85	147	12	3	139	11	7	146	12	2	95	99	4	11
97	109	16	97	134	10	4	130	12	6	139	13	3	121	138	7	12
98	115	16	99	135	11	1	135	12	11	100	13	4	117	120	3	10
99	103	14	109	138	11	6	101	13	5	134	14	6	117	125	8	13
100	77	10	67	138	11	6	127	10	7	131	10	11	92	95	3	10
101	136	14	122	122	10	6	125	14	7	130	15	10	143	135	12	2
102	137	16	121	125	10	5	126	14	8	138	15	8	141	130	9	3
103	115	18	97	130	10	10	135	12	11	139	13	3	119	128	3	10
104	150	16	132	134	11	2	139	15	9	102	16	10	141	151	10	2
105	117	18	99	129	10	3	130	13	0	100	13	4	127	130	3	10
106	108	8	100	136	10	6	149	12	5	101	13	5	113	128	10	2
107	91	14	77	125	10	3	127	11	5	139	11	7	110	111	1	10
108	116	6	112	140	11	6	137	13	1	117	14	9	112	126	14	2
109	103	14	89	127	10	7	145	12	3	131	12	7	114	119	5	11
110	114	14	100	114	9	6	134	12	10	102	13	6	135	141	6	3
111	155	18	137	122	10	3	134	16	2	108	17	4	139	170	11	2
112	107	16	91	126	10	6	148	12	4	133	12	9	117	121	4	10
113	85	10	75	129	10	9	138	11	9	138	11	6	105	107	5	10
114	139	18	121	121	10	1	128	14	10	138	15	8	147	135	8	2
115	110	16	100	129	10	9	136	13	0	102	13	6	121	135	4	10
116	103	14	89	137	13	1	145	12	1	131	12	7	92	96	4	11
117	113	16	97	125	10	5	135	12	9	139	13	3	132	127	5	10
118	119	14	105	127	10	7	138	13	2	109	14	1	124	132	6	11
119	91	8	83	139	11	7	137	11	5	145	12	1	99	104	5	10
120	147	20	127	146	12	2	138	15	0	136	16	4	127	134	7	12
121	103	20	85	131	10	11	145	12	1	145	12	1	111	111	0	10
122	95	12	83	124	10	2	139	11	7	145	12	1	114	118	4	10
123	130	16	114	141	11	9	139	14	1	130	15	0	120	129	0	10
124	103	14	89	131	10	11	145	12	1	131	12	7	111	115	4	10
125	141	18	123	130	10	10	130	15	0	131	15	11	138	147	9	3
126	114	14	100	138	11	6	134	12	10	102	13	6	112	117	5	10
127	82	14	68	144	12	0	131	10	11	132	11	0	91	92	1	10
128	134	16	118	143	11	11	132	14	5	135	15	5	121	129	8	2
129	121	14	107	128	10	8	130	13	4	131	14	3	125	134	9	3
130	132	14	118	129	10	9	131	14	3	135	15	5	133	143	10	2
131	137	18	119	130	10	10	136	14	8	136	15	6	135	143	8	2
132	102	16	86	138	11	6	144	12	0	147	12	3	104	107	3	10
133	114	16	98	129	10	9	134	12	10	130	13	4	119	124	5	10
134	107	16	91	124	10	4	148	12	4	135	12	9	119	122	4	10
135	138	20	120	138	11	6	131	14	9	130	15	10	129	137	8	2

National Intelligence Tests (Continued)

Table I A

1. Candidate	2. Test Scrs with Arth	3. Arth Scrs	4. Test Scrs no Arth.	5. C.A. Mths	6. C. A. Yr.	Mo.	7. M.A. with Arth Mos	8. M. A. with Arth. Yr.	Mo	9. M.A. no Arth. Mos.	10. M. A. no Arth. Yr.	Mo	11. I. Q. with Arth.	12. I. Q. no Arth.	13. Diff. in I.Q.
136	117	18	99	124	10	4	156	13	0	160	13	4	125	129	4
137	91	10	81	114	9	6	137	11	5	143	11	11	120	125	5
138	93	12	81	134	11	2	138	11	6	143	11	11	103	107	4
139	81	16	65	159	13	3	130	10	10	130	10	10	82	82	0
140	59	10	49	118	9	10	112	9	4	114	9	6	95	97	2
141	135	16	119	117	9	9	174	14	6	186	15	6	149	159	10
142	32	0	32	106	8	10	89	7	5	96	8	0	84	90	6
143	99	16	83	114	9	6	142	11	10	145	12	1	125	126	1
144	64	7	57	102	8	6	117	9	9	122	10	2	115	120	5
145	97	10	87	128	10	8	141	11	9	149	12	5	110	116	6
146	82	8	74	155	12	11	131	10	11	137	11	5	85	88	3
147	51	10	41	125	10	5	106	8	10	106	8	10	85	85	0
148	110	12	98	119	9	11	151	12	7	160	13	4	127	134	7
149	116	12	104	124	10	4	156	13	0	167	13	11	126	135	9
150	94	10	84	108	9	0	138	11	6	146	12	2	128	135	7
151	108	12	96	114	9	6	149	12	5	158	13	2	131	138	7
152	86	10	76	113	9	7	133	11	1	138	11	6	118	120	2
153	119	14	105	134	11	2	158	13	2	169	14	1	117	125	8
154	58	14	44	107	8	11	112	9	4	109	9	1	105	102	-3
155	83	12	71	113	9	5	131	10	11	134	11	2	116	119	3
156	150	16	134	144	12	0	189	15	9	204	17	0	131	142	11
157	125	16	109	159	13	3	163	13	7	174	14	6	102	109	7
158	97	12	85	127	10	7	141	11	9	146	12	2	111	115	4
159	119	16	103	128	10	8	158	13	2	166	13	10	123	130	7
160	101	16	85	112	9	4	144	12	0	146	12	2	129	130	1
161	76	8	68	119	9	11	126	10	6	132	11	0	106	111	5
162	52	12	40	118	9	10	107	8	11	105	8	9	91	89	-2
163	68	16	52	120	10	0	119	9	11	117	9	9	99	98	-1
164	93	16	77	114	9	6	138	11	6	139	11	7	121	122	1
165	93	14	79	114	9	6	138	11	6	142	11	10	121	125	4
166	97	10	87	113	9	5	141	11	9	148	12	4	125	131	6
167	86	6	80	115	9	7	133	11	1	142	11	10	116	123	7
168	95	16	79	113	9	5	139	11	7	142	11	10	123	126	3
169	93	10	83	119	9	11	138	11	6	145	12	1	116	121	5
170	56	14	42	112	9	4	110	9	2	107	8	11	98	96	-2
171	101	12	89	111	9	3	144	12	0	151	12	7	130	136	6
172	89	10	79	116	9	8	135	11	3	142	11	10	116	122	6
173	124	16	108	116	9	8	162	13	6	172	14	4	140	147	7
174	101	12	89	138	11	6	144	12	0	151	12	7	104	109	5
175	84	10	74	110	9	2	132	11	0	137	11	5	120	125	5
176	133	14	119	115	9	7	172	14	4	186	15	6	150	162	12
177	119	12	107	109	9	1	158	13	2	171	14	3	145	157	12
178	116	14	102	115	9	7	156	13	0	165	13	9	135	144	9
179	97	12	85	113	9	5	141	11	9	146	12	2	125	129	4
180	77	12	65	109	9	1	127	10	7	129	10	9	116	118	2

136	117	18	99	194	10	4	156	15	0	100	13	4	125	129	4
137	91	10	81	114	9	6	137	11	5	143	11	11	130	135	5
138	93	12	81	134	11	2	138	11	6	145	11	11	103	107	4
139	81	16	95	159	13	3	130	10	10	130	10	10	82	82	0
140	59	10	49	113	9	10	112	9	4	114	9	6	95	97	2
141	135	16	119	117	9	9	174	14	6	136	15	6	149	159	10
142	32	0	32	106	8	10	89	7	3	96	8	0	84	90	6
143	99	16	83	114	9	6	142	11	10	143	12	1	142	136	1
144	64	7	57	102	8	6	117	9	9	122	10	2	115	120	5
145	87	10	87	128	10	8	141	11	9	140	12	5	110	116	6
146	82	8	74	155	12	11	131	10	11	137	11	5	85	88	3
147	51	10	41	125	10	5	106	8	10	106	8	10	85	85	0
148	110	12	98	119	9	11	151	12	7	100	13	4	127	134	7
149	118	12	104	124	10	4	135	13	0	107	13	11	126	135	9
150	94	10	84	105	9	0	138	11	6	146	12	2	128	135	7
151	108	12	96	114	9	6	149	12	5	138	13	2	131	138	7
152	86	10	76	115	9	7	135	11	1	138	11	6	116	130	2
153	119	14	105	134	11	2	138	13	2	169	14	1	117	125	8
154	58	14	44	107	8	11	132	9	4	109	9	1	105	102	3
155	85	12	71	115	9	5	131	10	11	134	11	2	110	119	3
156	150	16	134	144	12	0	189	15	9	204	17	0	131	142	11
157	125	16	109	159	13	3	105	13	7	174	14	6	102	109	7
158	97	12	85	127	10	7	141	11	9	146	12	8	111	115	4
159	119	16	103	130	10	8	158	13	2	166	13	10	123	130	7
160	101	16	85	112	9	4	144	12	0	146	12	2	129	130	1
161	76	8	68	119	9	11	136	10	6	132	11	0	106	111	5
162	52	12	40	118	9	10	107	8	11	105	8	9	91	89	2
163	63	16	52	120	10	0	119	9	11	117	9	9	99	98	1
164	93	16	77	114	9	6	138	11	6	139	11	7	121	122	1
165	93	14	79	114	9	6	138	11	6	142	11	10	121	125	4
166	97	10	87	113	9	5	141	11	9	148	12	4	125	131	6
167	86	6	80	115	9	7	135	11	1	142	11	10	116	123	7
168	95	16	79	113	9	5	139	11	7	142	11	10	123	130	7
169	93	10	83	113	9	11	138	11	6	145	12	1	116	121	5
170	56	14	42	112	9	4	110	9	2	107	8	11	98	96	2
171	101	12	89	111	9	3	144	12	0	151	12	7	130	136	6
172	89	10	79	116	9	8	135	11	3	142	11	10	116	122	6
173	124	16	108	116	9	8	162	13	0	172	14	4	140	147	7
174	101	12	89	138	11	6	144	12	0	151	12	7	104	109	5
175	84	10	74	110	9	2	132	11	0	137	11	5	120	125	5
176	133	14	119	115	9	7	172	14	4	186	15	6	150	162	12
177	119	12	107	109	9	1	158	13	2	171	14	3	145	157	12
178	116	14	102	115	9	7	150	13	0	105	13	9	135	144	9
179	97	12	85	113	9	5	141	11	9	146	12	5	125	129	4
180	77	12	65	109	9	1	127	10	7	129	10	9	116	118	2

National Intelligence Tests (Continued)
Table I A

1. Candidate	2. Test Scrs with Arth	3. Arth Scrs	4. Test Scrs no Arth.	5. C.A. Mths	6. C. A. Yr.	Mo.	7. M.A. with Arth Mos	8. M. A. with Arth. Yr.	Mo	9. M.A. no Arth. Mos.	10. M. A. no Arth. Yr.	Mo	11. I. Q. with Arth.	12. I. Q. no Arth.	13. Diff. in I.Q.
181	81	16	65	118	9	10	130	10	10	130	10	10	110	110	0
182	65	8	57	120	10	0	118	9	10	122	10	2	98	102	4
183	54	12	42	123	10	3	108	9	0	107	8	11	88	87	-1
184	89	14	75	127	10	7	135	11	3	138	11	6	106	109	3
185	96	16	80	129	10	9	140	11	8	142	11	10	109	110	1
186	81	10	71	119	9	11	130	10	10	134	11	2	109	113	4
187	84	10	74	143	11	11	132	11	0	137	11	5	92	96	4
188	104	14	90	151	12	7	146	12	2	151	12	7	97	100	3
189	75	8	67	111	9	3	126	10	6	131	10	11	114	118	4
190	67	8	59	108	9	0	119	9	11	124	10	4	110	115	5
191	79	16	63	116	9	8	128	10	8	128	10	8	110	110	0
192	90	12	78	129	10	9	136	11	4	141	11	9	105	109	4
193	155	16	139	143	11	11	194	16	2	210	17	6	136	147	11
194	138	22	116	144	12	0	177	14	9	182	15	2	123	126	3
195	103	18	85	133	11	1	145	12	1	146	12	2	109	110	1
196	83	16	67	153	12	9	131	10	11	131	10	11	86	86	0
197	128	14	114	151	12	7	167	13	11	180	15	0	111	119	8
198	136	22	114	142	11	10	175	14	7	180	15	0	123	127	4
199	94	12	82	135	11	3	138	11	6	144	12	0	102	107	5
200	134	22	112	150	12	6	173	14	5	177	14	9	115	118	3
201	126	16	110	146	12	2	165	13	9	175	14	7	113	120	7
202	124	18	106	134	11	2	162	13	6	170	14	2	121	127	6
203	133	18	115	149	12	5	172	14	4	181	15	1	115	121	6
204	119	18	101	142	11	10	158	13	2	163	13	7	111	115	4
205	111	20	91	151	12	7	151	12	7	153	12	9	100	101	1
206	123	14	109	169	14	1	161	13	5	174	14	6	95	103	8
207	135	18	117	138	11	6	174	14	6	183	15	3	126	133	7
208	139	12	127	150	12	6	178	14	10	196	16	4	119	131	12
209	113	18	95	133	11	1	153	12	9	156	13	0	115	117	2
210	96	12	84	137	11	5	140	11	8	146	12	2	102	107	5
211	144	18	126	144	12	0	183	15	3	195	16	3	127	135	8
212	152	20	132	146	12	2	191	15	11	202	16	10	131	138	7
213	124	18	106	152	12	8	162	13	6	170	14	2	107	112	5
214	135	18	117	133	11	1	174	14	6	183	15	3	131	138	7
215	121	18	103	144	12	0	160	13	4	166	13	10	111	115	4
216	141	22	119	134	11	2	180	15	0	186	15	6	134	139	5
217	149	18	131	135	11	3	188	15	8	201	16	9	139	149	10
218	161	20	141	143	11	11	200	16	8	213	17	9	140	149	9
219	100	14	86	137	11	5	143	11	11	147	12	3	104	107	3
220	135	18	117	146	12	2	174	14	6	183	15	3	119	125	6
221	105	12	93	155	12	11	146	12	2	155	12	11	94	100	6
222	144	20	124	144	12	0	183	15	3	192	16	0	127	133	6
223	149	16	133	147	12	3	188	15	8	203	16	11	128	138	10
224	129	16	113	149	12	5	168	14	0	179	14	11	113	120	7
225	125	20	105	129	10	9	163	13	7	168	14	0	126	130	4

181	81	16	65	119	9	10	130	10	10	10	10	0
182	65	8	97	120	10	0	118	9	10	10	2	4
183	94	12	42	129	10	3	108	9	0	107	8	11	87	-1
184	89	14	75	127	10	7	135	11	3	139	11	6	106	109	3
185	96	16	80	129	10	9	140	11	8	142	11	10	109	110	1
186	81	10	71	119	9	11	130	10	10	134	11	2	109	113	4
187	84	10	74	143	11	11	132	11	0	137	11	5	92	90	4
188	104	14	90	151	12	7	140	12	2	151	12	7	97	100	3
189	75	8	67	111	9	3	130	10	6	131	10	11	114	113	4
190	67	8	59	108	9	0	119	9	11	124	10	4	110	113	5
191	79	16	63	130	9	8	128	10	8	128	10	8	110	110	0
192	90	12	78	129	10	9	130	11	4	141	11	9	105	109	4
193	155	16	139	143	11	11	134	10	2	130	10	6	136	147	11
194	138	22	116	144	12	0	117	14	9	182	15	2	142	136	3
195	105	18	85	133	11	1	145	12	1	146	12	2	109	110	1
196	85	16	67	125	12	9	131	10	11	131	10	11	86	86	0
197	128	14	114	131	12	7	107	13	11	180	15	0	111	119	8
198	136	22	114	142	11	10	175	14	7	180	15	0	125	127	4
199	94	12	82	135	11	5	138	11	6	144	12	0	109	107	5
200	134	22	112	130	12	6	173	14	5	177	14	9	115	114	2
201	120	16	110	140	12	5	165	13	9	179	14	7	113	120	7
202	124	18	106	134	11	3	162	13	8	170	14	5	121	127	6
203	133	18	115	149	12	5	172	14	4	181	15	1	115	121	6
204	119	18	101	142	11	10	158	13	2	169	13	7	111	115	4
205	111	20	91	151	12	7	151	12	7	155	12	9	100	101	1
206	125	14	109	109	14	1	101	12	5	174	14	6	95	103	8
207	135	18	117	138	11	6	174	14	6	185	15	3	126	135	7
208	139	12	127	150	12	6	178	14	10	190	16	4	119	131	12
209	115	18	95	137	11	1	155	12	9	156	13	0	115	117	2
210	96	12	84	137	11	5	140	11	8	146	12	2	102	107	5
211	144	18	126	144	12	0	189	15	3	198	16	5	127	135	8
212	152	20	132	146	12	2	191	15	11	202	16	10	131	138	7
213	124	18	106	132	12	8	162	13	6	170	14	2	107	112	5
214	135	18	117	133	11	1	174	14	6	185	15	3	131	138	7
215	121	18	103	144	12	0	160	13	4	166	13	10	111	115	4
216	141	22	119	134	11	2	180	15	0	186	15	6	134	136	5
217	149	18	131	135	11	5	188	15	8	201	16	9	139	149	10
218	161	20	141	143	11	11	200	16	8	213	17	9	140	149	9
219	100	14	86	137	11	5	143	11	11	147	12	3	104	107	3
220	135	18	117	146	12	2	174	14	6	180	15	3	119	125	6
221	105	12	93	155	12	11	146	12	2	155	12	11	94	100	6
222	144	20	124	144	12	0	189	15	3	198	16	0	127	133	6
223	149	16	133	147	12	3	188	15	8	203	16	11	128	138	10
224	139	16	113	149	12	5	168	14	0	179	14	11	113	120	7
225	125	20	105	129	10	9	165	13	7	168	14	0	126	130	4

1. Candidate	2. Test Scrs with Arth	3. Arth Scrs	4. Test Scrs no Arth.	5. C.A. Mths	6. C. A. Yr.	6. C. A. Mo.	7. M.A. with Arth Mos	8. M. A. with Arth. Yr.	8. M. A. with Arth. Mo	9. M.A. no Arth. Mos.	10. M. A. no Arth. Yr.	10. M. A. no Arth. Mo	11. I. Q. with Arth.	12. I. Q. no Arth.	13. Diff. in I.Q.
226	140	14	126	157	13	1	179	14	11	194	16	2	114	124	10
227	148	18	130	153	12	9	187	15	7	199	16	7	122	130	8
228	117	16	101	140	11	8	156	13	0	163	13	7	111	116	5
229	167	20	147	126	10	6	206	17	2	220	18	4	163	176	13
230	119	16	103	147	12	3	158	13	2	166	13	10	107	113	6
231	112	16	96	148	12	4	152	12	8	157	13	1	103	106	3
232	137	14	123	141	11	9	176	14	8	191	15	11	125	135	10
233	144	16	128	130	10	10	183	15	3	197	16	5	141	152	11
234	121	14	107	132	11	0	160	13	4	171	14	3	121	130	9
235	153	18	135	147	12	3	192	16	0	205	17	1	131	139	8
236	143	20	123	140	11	8	182	15	2	191	15	11	130	136	6
237	147	20	127	160	13	4	186	15	6	196	16	4	116	123	7
238	74	10	64	157	13	1	125	10	5	128	10	8	80	82	2
239	157	20	137	148	12	4	196	16	4	208	17	4	132	141	9
240	102	12	90	146	12	2	144	12	0	151	12	7	99	103	4
241	126	16	110	165	13	9	165	13	9	175	14	7	100	106	6
242	127	12	115	140	11	8	166	13	10	181	15	1	119	129	10
243	164	16	148	136	11	4	203	16	11	221	18	5	149	163	14
244	103	16	87	144	12	0	145	12	1	148	12	4	101	103	2
245	94	14	80	166	13	10	138	11	6	142	11	10	83	86	3
246	66	18	48	182	15	2	118	9	10	112	9	4	65	62	-3
247	112	18	94	127	10	7	152	12	8	156	13	0	120	123	3
248	92	14	78	131	10	11	137	11	5	141	11	9	105	108	3
249	113	14	99	154	12	10	153	12	9	160	13	4	99	104	5

230	140	14	120	157	13	179	14	12	194	10	2	114	134	10
227	148	18	130	153	14	9	187	15	7	199	10	7	122	130	8
228	117	10	101	140	11	8	150	13	0	163	13	7	111	116	2
229	107	20	147	120	10	6	200	17	2	220	18	4	123	176	13
220	119	10	103	147	12	3	158	13	2	166	13	10	107	113	6
231	112	16	90	148	12	4	152	12	8	157	13	1	103	106	3
232	137	14	123	141	11	9	176	14	8	191	15	11	125	139	10
233	144	16	128	130	10	10	183	15	3	197	16	5	141	132	11
234	121	14	107	132	11	0	160	13	4	171	14	3	121	130	9
235	153	18	135	147	12	3	192	16	0	205	17	1	131	139	8
236	143	20	122	140	11	8	182	15	2	191	15	11	130	136	6
237	147	20	127	160	13	4	180	15	6	190	16	4	116	123	7
238	74	10	64	157	13	1	125	10	5	128	10	8	80	82	2
239	157	20	137	148	12	4	190	16	4	208	17	4	132	141	9
240	102	12	90	146	12	2	144	12	0	151	12	7	99	103	4
241	120	16	110	165	13	9	165	13	9	175	14	7	100	106	6
242	127	12	115	140	11	8	166	13	10	181	15	1	119	129	10
243	104	16	148	130	11	4	203	16	11	221	18	5	149	103	14
244	103	16	87	144	12	0	145	12	1	148	12	4	101	103	3
245	94	14	80	166	13	10	138	11	6	142	11	10	83	86	3
246	66	18	48	102	15	2	118	9	10	112	9	4	65	62	-3
247	112	18	94	127	10	7	152	12	8	150	13	0	120	125	5
248	92	14	78	131	10	11	127	11	5	141	11	9	105	108	3
249	113	14	90	154	12	10	123	12	9	160	13	4	99	104	5

(from page 6)
quotient without arithmetic. The table thus derived from the National Intelligence Tests is Table IIA, pages 14-17. This new table is based upon the assumption that the arithmetic enters proportionally, aviz, 18.6%, regardless of the size of the score.

At this point it is necessary to indicate the method of interpretation of scores in tests when the arithmetic score is omitted. This may be illustrated by taking the first case or candidate under the National Intelligence Test, Table IA, pages 7-12.

The score for candidate No.1, (Table IA) with arithmetic is 167. This is interpreted as an intelligence quotient of 130 in the tables that accompany the tests. Assuming that arithmetic has its proportional share, 18.6% and reducing 167 by 18.6%, we secure 135.94, (167-31.06). Since 167 equals an intelligence quotient of 130, so the reduced score of 135.94 must equal 130 intelligence quotient. In this particular case, Candidate No. 1, has a score of 147 when arithmetic is taken out. Reference to 147 in column 3 of Table IIA, page 17, indicates a mental age of 220 months, and this gives Candidate 1, an intelligence quotient of 138 (in column 12 of Table IA, page 7). This candidate gains 8 points in intelligence quotient, and this difference is shown in column 13, page7.

The assumption in the above procedure for interpretation of scores without arithmetic into intelligence quotients is that arithmetic enters proportionally. If this assumption is borne out by the analysis then the curve of pluses and minuses due to change of score when arithmetic is omitted, will be normal.

(continued on page 18)

Table II A (See Text)

National Intelligence Tests Scale A-Form I

MENTAL AGE EQUIVALENTS FOR SCORES
INCLUDING AND EXCLUDING
ARITHMETIC

Score with Arith.	Arithmetic per cent .186	Score without Arith.	Mental Ages in months
31	5.77	25.23	88
32	5.95	26.05	89
33	6.14	26.86	89
34	6.32	27.68	90
35	6.51	28.49	91
36	6.70	29.30	92
37	6.88	30.12	93
38	7.07	30.93	94
39	7.25	31.75	95
40	7.44	32.56	96
41	7.63	33.37	97
42	7.82	34.18	98
43	8.00	35.00	99
44	8.18	35.82	100
45	8.37	36.63	101
46	8.55	37.45	102
47	8.74	38.26	103
48	8.90	39.10	103
49	9.11	39.89	104
50	9.30	40.70	105
51	9.48	41.52	106
52	9.67	42.33	107
53	9.80	43.20	107
54	10.04	43.96	108
55	10.23	44.77	109
56	10.40	45.60	110
57	10.60	46.40	111
58	10.70	47.30	112
59	10.90	48.10	112
60	11.10	48.90	113
61	11.30	49.70	114
62	11.50	50.50	115
63	11.70	51.30	116
64	11.90	52.10	117
65	12.00	53.00	118
66	12.28	53.72	118
67	12.46	54.54	119
68	12.64	55.36	119
69	12.83	56.17	120
70	13.02	56.98	121

NATIONAL SCORE CHART

Table II A

Score with Arith.	Arithmetic per cent .186	Score without Arith.	Mental Ages in months
71	13.21	57.79	122
72	13.40	58.60	123
73	13.58	59.42	124
74	13.77	60.23	125
75	13.95	61.05	126
76	14.14	61.86	126
77	14.33	62.67	127
78	14.51	63.49	128
79	14.70	64.30	128
80	14.88	65.12	129
81	15.07	65.93	130
82	15.26	66.74	131
83	15.44	67.56	131
84	15.63	68.37	132
85	15.81	69.19	132
86	16.00	70.00	133
87	16.19	70.81	134
88	16.37	71.63	134
89	16.56	72.44	135
90	16.74	73.26	136
91	16.93	74.07	137
92	17.12	74.88	137
93	17.30	75.70	138
94	17.49	76.51	138
95	17.67	77.33	139
96	17.86	78.14	140
97	18.05	78.95	141
98	18.23	79.77	142
99	18.42	80.58	142
100	18.60	81.40	143
101	18.79	82.21	144
102	18.98	83.02	144
103	19.16	83.84	145
104	19.35	84.65	146
105	19.53	85.47	146
106	19.72	86.28	147
107	19.91	87.09	148
108	20.09	87.91	149
109	20.28	88.72	150
110	20.46	89.54	151

NATIONAL SCORE CHART

Table II A

Score with Arith.	Arithmetic per cent .186	Score without Arith.	Mental Ages in months
111	20.65	90.35	151
112	20.84	91.16	152
113	21.02	91.98	153
114	21.21	92.79	154
115	21.39	93.61	155
116	21.58	94.42	156
117	21.77	95.23	156
118	21.95	96.05	157
119	22.14	96.86	158
120	22.32	97.68	159
121	22.51	98.49	160
122	22.70	99.30	160
123	22.88	100.12	161
124	23.07	100.93	162
125	23.25	101.75	163
126	23.44	102.56	165
127	23.63	103.37	166
128	23.81	104.19	167
129	24.00	105.00	168
130	24.18	105.82	169
131	24.37	106.63	170
132	24.56	107.44	171
133	24.74	108.26	172
134	24.93	109.07	173
135	25.11	109.89	174
136	25.30	110.70	175
137	25.49	111.51	176
138	25.67	112.33	177
139	25.86	113.14	178
140	26.04	113.96	179
141	26.23	114.77	180
142	26.42	115.58	181
143	26.60	116.40	182
144	26.79	117.21	183
145	26.97	118.03	184
146	27.16	118.84	185
147	27.35	119.65	186
148	27.53	120.47	187
149	27.72	121.28	188
150	27.90	122.10	189

NATIONAL SCORE CHART

Table II A

Score with Arith.	Arithmetic per cent .186	Score without Arith.	Mental Ages in months
151	28.09	122.91	190
152	28.28	123.72	191
153	28.46	124.54	192
154	28.65	125.35	193
155	28.83	126.17	194
156	29.02	126.98	195
157	29.21	127.79	196
158	29.39	128.61	197
159	29.58	129.42	198
160	29.76	130.24	199
161	29.95	131.05	200
162	30.14	131.86	201
163	30.32	132.68	202
164	30.51	133.49	203
165	30.69	134.31	204
166	30.88	135.12	205
167	31.06	135.94	206
168	31.25	136.75	207
169	31.44	137.56	208
170	31.62	138.38	209
171	31.81	139.19	210
172	32.00	140.00	211
173	32.18	140.82	212
174	32.37	141.63	213
175	32.55	142.45	214
176	32.74	143.26	215
177	32.93	144.07	216
178	33.11	144.89	217
179	33.30	145.70	218
180	33.48	146.52	219
181	33.67	147.33	220
182	33.86	148.14	221
183	34.04	148.96	222
184	34.23	149.77	223
185	34.42	150.58	224
186	34.60	151.40	225
187	34.79	152.21	226
188	34.97	153.03	227
189	35.16	153.84	228
190	35.34	154.66	229

(from page 13)

With the above explanation columns 6 to 13 (See Table IA, pages 7-12) become more or less self-explanatory. The chronological age in years and months in Table IA, pages 7-12, column 6, comes directly from column 5.

The mental age with arithmetic in Table IA, pages 7-12, column 7, is read directly from the author's tables showing the intelligence quotient interpretation of the scores (with arithmetic of course). Table IA, pages 7-12 column 9, showing the mental age in months without arithmetic, is read directly from the newly constructed tables of interpretation of scores as shown in Table IIA, pages 14-17 and explained on pages 6 and 13.

Tables for the Terman Group Test and Revised Alpha Examination have been constructed in a similar manner to show the equivalent scores with and without arithmetic.

In applying the above procedure to the Terman Group Test, it may be noted that there are ten sections of the test, and that these sections and respective total scores are as follows:

Section	Score	
1	20	
2	22	
3	30	
4	20	
5	24	
6	24	
7	20	
8	18	
9	18	
10	24	
	220	Total score for all sections

The arithmetic sections of the tests are:

Section	Score
5	24
10	28
Total arithmetic score -------	48

(Continued on page 30)

Table IB (See Text)

Terman Group Test of Mental Ability

AN INTENSIFIED SUMMARY OF RESEARCH INFORMATION

1. Candidate	2. Test Scrs with Arth	3. Arth Scrs	4. Test Scrs no Arth.	5. C.A. Mths	6. C. A. Yr.	Mo.	7. M.A. with Arth Mos	8. M. A. with Arth. Yr.	Mo	9. M.A. no Arth. Mos.	10. M. A. no Arth. Yr.	Mo	11. I. Q. with Arth.	12. I. Q. no Arth.	13. Diff. in I.Q.
1	145	22	123	168	14	0	203	16	11	211	17	7	121	126	5
2	137	10	127	176	14	8	198	16	6	214	17	10	113	122	9
3	113	8	105	165	13	9	185	15	5	197	16	5	112	119	7
4	117	8	109	171	14	3	188	15	8	200	16	8	110	117	7
5	144	16	128	172	14	4	202	16	10	215	17	11	117	125	8
6	66	6	60	190	15	10	153	12	9	161	13	5	81	85	4
7	126	10	116	166	13	10	192	16	0	205	17	1	116	123	7
8	139	16	123	171	14	3	200	16	8	211	17	7	117	123	6
9	174	20	154	177	14	9	222	18	6	242	20	2	125	137	12
10	121	14	107	172	14	4	190	15	10	198	16	6	110	115	5
11	99	8	91	181	15	1	177	14	9	188	15	8	98	104	6
12	59	0	59	183	15	3	147	12	3	160	13	4	80	87	7
13	121	4	117	168	14	0	190	15	10	206	17	2	113	123	10
14	136	12	124	156	13	0	198	16	6	212	17	8	127	136	9
15	96	14	82	170	14	2	175	14	7	181	15	1	103	106	3
16	76	10	66	163	13	7	160	13	4	167	13	11	98	102	4
17	127	12	115	177	14	9	193	16	1	205	17	1	109	116	7
18	148	14	134	183	15	3	205	17	1	220	18	4	112	120	8
19	79	10	69	176	14	8	163	13	7	170	14	2	93	97	4
20	136	0	136	177	14	9	198	16	6	223	18	7	112	126	14
21	106	8	98	188	15	8	181	15	1	192	16	0	96	102	6
22	62	4	58	181	15	1	150	12	6	160	13	4	83	88	5
23	113	8	105	177	14	9	185	15	5	197	16	5	105	111	6
24	164	20	144	166	13	10	215	17	11	231	19	3	129	139	10
25	130	14	116	163	13	7	195	16	3	205	17	1	120	126	6
26	54	2	52	166	13	10	143	11	11	154	12	10	86	93	7
27	136	14	122	152	12	8	198	16	6	210	17	6	130	138	8
28	158	14	144	172	14	4	211	17	7	231	19	3	123	134	11
29	139	10	129	195	16	3	200	16	8	216	18	0	103	111	8
30	111	12	99	172	14	4	184	15	4	193	16	1	107	112	5
31	119	18	101	179	14	11	189	15	9	195	16	3	106	109	3
32	139	14	125	167	13	11	200	16	8	213	17	9	120	127	7
33	76	12	64	179	14	11	160	13	4	163	13	9	89	92	3
34	118	10	108	169	14	1	188	15	8	200	16	8	111	118	7
35	85	4	81	175	14	7	167	13	11	180	15	0	95	103	8
36	127	10	117	173	14	5	193	16	1	206	17	2	112	119	7
37	113	10	103	184	15	4	185	15	5	196	16	4	101	106	5
38	77	8	69	193	16	1	161	13	5	170	14	2	83	88	5
39	139	10	129	178	14	10	200	16	8	216	18	0	112	121	9
40	148	12	136	167	13	11	205	17	1	223	18	7	123	134	11
41	178	16	162	173	14	5	225	18	9	250	20	10	130	145	15
42	108	12	96	172	14	4	182	15	2	191	15	11	106	111	5
43	130	12	118	166	13	10	195	16	3	207	17	3	117	125	8
44	156	12	144	171	14	3	209	17	5	231	19	3	122	135	13
45	166	12	154	166	13	10	216	18	9	242	20	2	130	146	16

AN INTERESTING SUMMARY OF AMERICAN INDUSTRIES

Terman Group Test (Continued)

Table I B

1. Candidate	2. Test Scrs with Arth	3. Arth Scrs	4. Test Scrs no Arth.	5. C.A. Mths	6. C. A. Yr.	6. C. A. Mo.	7. M.A. with Arth Mos	8. M. A. with Arth. Yr.	8. M. A. with Arth. Mo	9. M.A. no Arth. Mos.	10. M. A. no Arth. Yr.	10. M. A. no Arth. Mo	11. I. Q. with Arth.	12. I. Q. no Arth.	13. Diff. in I.Q.
46	136	12	124	158	13	2	198	16	6	212	17	8	125	134	9
47	104	10	94	171	14	3	180	15	0	190	15	10	105	111	6
48	162	10	152	185	15	5	213	17	9	239	19	11	115	129	14
49	148	14	134	162	13	6	205	17	1	220	18	4	127	136	9
50	174	22	152	178	14	10	222	18	6	239	19	11	125	135	10
51	81	8	73	173	14	5	164	13	8	173	14	5	95	100	5
52	130	8	122	161	13	5	195	16	3	210	17	6	121	130	9
53	117	14	103	174	14	6	188	15	8	196	16	4	108	113	5
54	148	10	138	167	13	11	205	17	1	224	18	8	123	134	11
55	122	16	106	179	14	11	190	15	10	198	16	6	106	111	5
56	110	6	104	170	14	2	183	15	3	197	16	5	108	116	8
57	89	6	83	169	14	1	170	14	2	182	15	2	101	108	7
58	76	0	76	171	14	3	160	13	4	176	14	8	94	103	9
59	79	2	77	195	16	3	163	13	7	177	14	9	84	91	7
60	129	10	119	172	14	4	194	16	2	208	17	4	113	121	8
61	128	10	118	187	15	7	194	16	2	207	17	3	104	111	7
62	115	4	111	180	15	0	187	15	7	201	16	9	104	112	8
63	86	10	76	171	14	3	168	14	0	176	14	8	98	103	5
64	110	14	96	180	15	0	183	15	3	191	15	11	102	106	4
65	134	8	126	183	15	3	197	16	5	213	17	9	108	116	8
66	132	6	126	169	14	1	196	16	4	213	17	9	116	126	10
67	100	10	90	175	14	7	177	14	9	187	15	7	101	107	6
68	107	10	97	191	15	11	182	15	2	192	16	0	95	101	6
69	118	4	114	168	14	0	188	15	8	204	17	0	112	121	9
70	132	12	120	170	14	2	196	16	4	208	17	4	115	122	7
71	132	14	118	179	14	11	196	16	4	207	17	3	109	115.	6
72	175	20	155	166	13	10	223	18	7	243	20	3	134	146	12
73	107	2	105	184	15	4	182	15	2	197	16	5	99	107	8
74	108	8	100	174	14	6	182	15	2	194	16	2	105	111	6
75	139	16	123	166	13	10	200	16	8	211	17	7	120	127	7
76	84	12	72	182	15	2	166	13	10	173	14	5	91	95	4
77	74	6	68	188	15	8	159	13	3	169	14	1	85	90	5
78	135	14	121	170	14	2	197	16	5	209	17	5	116	123	7
79	125	14	111	170	14	2	192	16	0	202	16	10	113	119	6
80	110	12	98	171	14	3	183	15	3	192	16	0	107	112	5
81	129	14	115	172	14	4	194	16	2	205	17	1	113	119	6
82	89	0	89	173	14	5	170	14	2	187	15	7	98	108	10
83	80	10	70	187	15	7	163	13	7	170	14	2	87	91	4
84	143	18	125	177	14	9	202	16	10	213	17	9	114	120	6
85	146	6	140	161	13	5	203	16	11	227	18	11	126	141	15
86	97	4	93	170	14	2	175	14	7	189	15	9	103	111	8
87	148	16	132	171	14	3	205	17	1	219	18	3	120	128	8
88	91	4	87	183	15	3	171	14	3	185	15	5	93	101	8
89	155	8	147	164	13	8	209	17	5	234	19	6	127	143	16
90	111	8	103	186	15	6	184	15	4	196	16	4	99	105	6

Terman Group Test (Continued)
Table I B

1. Candidate	2. Test Scrs with Arth	3. Arth Scrs	4. Test Scrs no Arth.	5. C.A. Mths	6. C. A. Yr.	6. C. A. Mo.	7. M.A. with Arth Mos	8. M. A. with Arth. Yr.	8. M. A. with Arth. Mo	9. M.A. no Arth. Mos.	10. M. A. no Arth. Yr.	10. M. A. no Arth. Mo	11. I. Q. with Arth.	12. I. Q. no Arth.	13. Diff. in I.Q.
91	179	14	165	173	14	5	226	18	10	254	21	2	131	146	15
92	109	10	99	184	15	4	183	15	3	193	16	1	99	105	6
93	164	22	142	164	13	8	215	17	11	228	19	0	124	139	15
94	112	16	96	198	16	6	185	15	5	191	15	11	93	96	3
95	101	6	95	169	14	1	178	14	10	190	15	10	105	112	7
96	146	18	128	174	14	6	203	16	11	215	17	11	117	124	7
97	110	6	104	180	15	0	183	15	3	197	16	5	102	109	7
98	126	16	110	173	14	5	192	16	0	201	16	9	111	116	5
99	132	10	122	166	13	10	196	16	4	210	17	6	118	127	9
100	87	12	75	185	15	5	168	14	0	175	14	7	91	95	4
101	174	16	158	170	14	2	222	18	6	246	20	6	131	145	14
102	157	12	145	189	15	9	210	17	6	231	19	3	111	122	11
103	122	0	122	175	14	7	190	15	10	210	17	6	109	120	11
104	105	14	91	161	13	5	181	15	1	188	15	8	112	117	5
105	166	20	146	170	14	2	216	18	0	232	19	4	127	136	9
106	141	14	127	178	14	10	201	16	9	214	17	10	113	120	7
107	83	6	77	173	14	5	165	13	9	177	14	9	95	102	7
108	100	8	92	167	13	11	177	14	9	188	15	8	106	113	7
109	131	6	125	171	14	3	195	16	3	213	17	9	114	125	11
110	65	4	61	174	14	6	152	12	8	163	13	7	87	94	7
111	131	24	107	186	15	6	195	16	3	199	16	7	105	107	2
112	81	2	79	165	13	9	164	13	8	179	14	11	99	108	9
113	128	6	122	175	14	7	194	16	2	210	17	6	111	120	9
114	97	10	87	180	15	0	175	14	7	185	15	5	97	103	6
115	132	16	116	173	14	5	196	16	4	205	17	1	113	118	5
116	69	4	65	149	12	5	156	13	0	166	13	10	105	111	6
117	168	18	150	171	14	3	217	18	1	237	19	9	127	139	12
118	160	16	144	173	14	5	212	17	8	231	19	3	123	134	11
119	142	12	130	175	14	7	210	16	9	217	18	1	115	124	9
120	152	20	132	174	14	6	207	17	3	219	18	3	119	126	7
121	137	18	119	165	13	9	198	16	6	208	17	4	120	126	6
122	146	12	134	169	14	1	203	16	11	220	18	4	120	130	10
123	160	12	148	163	13	7	212	17	8	235	19	7	130	144	14
124	137	6	131	192	16	0	198	16	6	217	18	1	103	113	10
125	131	10	121	160	13	4	195	16	3	209	17	5	122	131	9
126	78	2	76	183	15	3	162	13	6	176	14	8	89	96	7
127	98	6	92	184	15	4	176	14	8	188	15	8	96	102	6
128	140	12	128	177	14	9	200	16	8	215	17	11	113	121	8
129	135	18	117	176	14	8	197	16	5	206	17	2	112	117	5
130	98	4	94	190	15	10	176	14	8	190	15	10	93	100	7
131	139	18	121	174	14	6	200	16	8	209	17	5	115	120	5
132	132	18	114	176	14	8	196	16	4	204	17	0	111	116	5
133	88	4	84	182	15	2	169	14	1	182	15	2	93	100	7
134	141	12	129	172	14	4	201	16	9	216	18	0	117	126	9
135	164	18	146	158	13	2	215	17	11	232	19	4	136	147	11

Terman Group Test (Continued)
Table I B

1. Candidate	2. Test Scrs with Arth	3. Arth Scrs	4. Test Scrs no Arth.	5. C.A. Mths	6. C. A. Yr.	Mo.	7. M.A. with Arth Mos	8. M. A. with Arth. Yr.	Mo	9. M.A. no Arth. Mos.	10. M. A. no Arth. Yr.	Mo	11. I. Q. with Arth.	12 I. Q. no Arth.	13. Diff. in I.Q.
136	113	10	103	187	15	7	185	15	5	196	16	4	99	105	6
137	123	10	113	192	16	0	191	15	11	203	16	11	99	106	7
138	181	18	163	164	13	8	227	18	11	251	20	11	138	154	16
139	151	8	143	177	14	9	206	17	2	230	19	2	116	129	13
140	59	8	51	175	14	7	147	12	3	153	12	9	84	87	3
141	130	14	116	185	15	5	195	16	3	205	17	1	105	111	6
142	123	14	109	172	14	4	191	15	11	200	16	8	111	116	5
143	88	0	88	185	15	5	169	14	1	185	15	5	91	100	9
144	113	6	107	165	13	9	185	15	5	198	16	6	112	120	8
145	64	0	64	188	15	8	151	12	7	165	13	9	80	88	8
146	138	8	130	172	14	4	199	16	7	217	18	1	116	126	10
147	80	18	62	167	13	11	163	13	7	163	13	7	98	98	0
148	161	22	139	174	14	6	213	17	9	226	18	10	122	129	7
149	118	18	100	182	15	2	188	15	8	194	16	2	103	107	4
150	84	6	78	169	14	1	166	13	10	178	14	10	98	105	7
151	93	4	89	173	14	5	173	14	5	186	15	6	100	108	8
152	108	10	98	177	14	9	182	15	2	192	16	0	103	108	5
153	116	12	104	197	16	5	187	15	7	197	16	5	95	100	5
154	77	4	73	177	14	9	161	13	5	173	14	5	91	98	7
155	118	12	106	180	15	0	188	15	8	198	16	6	104	110	6
156	138	16	122	168	14	0	199	16	7	210	17	6	118	125	7
157	67	4	63	189	15	9	154	12	10	164	13	8	81	87	6
158	112	8	104	182	15	2	185	15	5	197	16	5	102	108	6
159	121	10	111	158	13	2	190	15	10	202	16	10	120	128	8
160	112	12	100	184	15	4	185	15	5	194	16	2	101	105	4
161	95	8	87	178	14	10	174	14	6	185	15	5	98	104	6
162	89	6	83	187	15	7	170	14	2	182	15	2	91	97	6
163	115	8	107	166	13	10	187	15	7	199	16	7	113	120	7
164	151	12	139	169	14	1	206	17	2	226	18	10	122	133	11
165	170	16	154	179	14	11	219	18	3	242	20	2	122	135	13
166	116	8	108	188	15	8	187	15	7	200	16	8	99	106	7
167	161	16	145	173	14	5	213	17	9	231	19	3	123	134	11
168	61	6	55	185	15	5	149	12	5	157	13	1	81	85	4
169	156	14	142	176	14	8	209	17	5	228	19	0	119	130	11
170	135	6	129	184	15	4	197	16	5	216	18	0	107	117	10
171	111	14	97	178	14	10	184	15	4	192	16	0	103	108	5
172	98	10	88	189	15	9	176	14	8	185	15	5	93	98	5
173	136	14	122	177	14	9	198	16	6	210	17	6	112	119	7
174	122	6	116	174	14	6	190	15	10	205	17	1	109	118	9
175	98	20	78	168	14	0	176	14	8	178	14	10	175	106	1
176	119	14	105	175	14	7	189	15	9	197	16	5	108	113	5
177	61	2	59	171	14	3	149	12	5	160	13	4	87	94	7
178	154	12	142	174	14	6	208	17	4	228	19	0	120	131	11
179	77	8	69	192	16	0	161	13	5	170	14	2	84	89	5
180	156	10	146	183	15	3	209	17	5	232	19	4	114	127	13

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.
Cdn-	Type	Test										
di-	Bore	Arch	Bore									
base	with	Bore	no									
	Arch		Arch									

Terman Group Test (Continued)

Table I B

1. Candidate	2. Test Scrs with Arth	3. Arth Scrs	4. Test Scrs no Arth.	5. C.A. Mths	6. C. A. Yr.	6. C. A. Mo.	7. M.A. with Arth: Mos	8. M. A. with Arth. Yr.	8. M. A. with Arth. Mo	9. M.A. no Arth. Mos.	10. M. A. no Arth. Yr.	10. M. A. no Arth. Mo	11. I. Q. with Arth.	12. I. Q. no Arth.	13. Diff. in I.Q.
181	158	16	142	174	14	6	211	17	7	228	19	0	121	131	10
182	172	18	154	160	13	4	220	18	4	242	20	2	138	151	13
183	98	10	88	192	16	0	176	14	8	185	15	5	92	96	4
184	86	4	82	190	15	10	168	14	0	181	15	1	89	95	6
185	123	8	115	183	15	3	191	15	11	205	17	1	104	112	8
186	188	24	164	183	15	3	233	19	5	252	21	0	127	138	11
187	148	14	134	169	14	1	205	17	1	220	18	4	121	130	9
188	115	10	105	171	14	3	187	15	7	197	16	5	109	115	6
189	139	12	127	170	14	2	200	16	8	214	17	10	118	126	8
190	163	12	151	178	14	10	214	17	10	238	19	10	120	134	14
191	136	10	126	180	15	0	198	16	6	213	17	9	110	118	8
192	169	10	159	182	15	2	218	18	2	247	20	7	120	136	16
193	92	6	86	192	16	0	172	14	4	184	15	4	90	96	6
194	150	12	138	173	14	5	206	17	2	224	18	8	119	129	10
195	151	18	133	187	15	7	206	17	2	220	18	4	110	118	8
196	146	12	134	173	14	5	203	16	11	220	18	4	117	127	10
197	170	18	152	175	14	7	219	18	3	239	19	11	125	137	12
198	126	14	112	189	15	9	192	16	0	202	16	10	102	107	5
199	182	14	168	177	14	9	228	19	0	252	21	0	129	142	13
200	108	12	96	176	14	8	182	15	2	191	15	11	103	109	6
201	151	10	141	172	14	4	206	17	2	227	18	11	120	132	12
202	130	16	114	168	14	0	195	16	3	204	17	0	116	121	5
203	86	10	76	192	16	0	168	14	0	176	14	8	88	92	4
204	127	12	115	179	14	11	193	16	1	205	17	1	108	115	7
205	41	0	41	183	15	3	131	10	11	142	11	10	72	78	6
206	125	10	115	185	15	5	192	16	0	205	17	1	104	111	7
207	165	10	155	187	15	7	216	18	0	243	20	3	116	130	14
208	166	18	148	184	15	4	216	18	0	235	19	7	117	128	11
209	135	4	131	183	15	3	197	16	5	217	18	1	108	119	11
210	91	12	79	175	14	7	171	14	3	179	14	11	98	102	4
211	79	8	71	183	15	3	163	13	7	172	14	4	89	94	5
212	180	16	164	174	14	6	227	18	11	252	21	0	130	145	15
213	142	12	130	179	14	11	201	16	9	217	18	1	112	121	9
214	124	14	110	171	14	3	191	15	11	201	16	9	112	118	6
215	139	8	131	177	14	9	200	16	8	217	18	1	113	123	10
216	92	2	90	192	16	0	172	14	4	187	15	7	90	97	7
217	69	8	61	192	16	0	156	13	0	163	13	7	81	85	4
218	117	4	113	185	15	5	188	15	8	203	16	11	102	110	8
219	96	6	90	179	14	11	175	14	7	187	15	7	98	104	6
220	113	12	101	185	15	5	185	15	5	195	16	3	100	105	5
221	102	8	94	190	15	10	179	14	11	190	15	10	94	100	6
222	129	12	117	169	14	1	194	16	2	206	17	2	115	122	7
223	153	10	143	182	15	2	208	17	4	230	19	2	114	126	12
224	145	10	135	176	14	8	203	16	11	221	18	5	115	126	11
225	149	10	139	169	14	1	205	17	1	226	18	10	121	133	12

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.
Can-didate	Score with Arith.	Score with Arith.	Score with Arith.	Score with Arith.	No. Ans.	No. Ans.	No. Ans.	No. Ans.	No. with Arith.	No. with Arith.	No. with Arith.	No. with Arith.
181	158	16	142	174	14	7	228	19	0	101	141	10
182	172	18	154	100	17	4	242	20	3	138	151	13
183	98	10	88	192	16	0	176	14	8	135	5	92	96	4
184	86	4	82	190	15	10	168	14	0	181	15	1	89	85	6
185	123	8	118	185	15	5	191	15	11	205	17	1	104	112	8
186	138	24	134	183	15	3	235	19	5	252	21	0	127	138	11
187	148	14	134	159	14	1	205	17	1	220	18	4	121	130	9
188	115	10	105	171	14	3	187	15	7	197	16	5	109	115	6
189	139	12	127	170	14	2	200	16	8	214	17	10	118	126	8
190	103	12	151	178	14	10	214	17	10	236	19	10	120	134	14
191	139	10	126	180	15	0	198	16	6	213	17	9	110	118	8
192	109	10	159	182	15	2	218	18	2	247	20	7	130	136	10
193	92	6	80	190	15	0	172	14	4	184	15	4	90	96	6
194	150	12	130	173	14	5	200	17	2	224	18	8	119	129	10
195	151	18	135	187	15	7	206	17	2	220	18	4	110	118	8
196	146	12	134	173	14	5	203	16	11	230	18	4	117	127	10
197	170	18	152	175	14	7	219	18	3	239	19	11	125	137	12
198	136	14	112	159	15	9	192	16	0	202	16	10	102	107	5
199	182	14	168	177	14	9	238	19	0	252	21	0	129	142	13
200	108	12	90	176	14	6	182	15	2	191	15	11	103	109	6
201	151	10	141	172	14	4	200	17	3	227	18	11	130	132	12
202	130	16	114	168	14	0	195	16	3	204	17	0	116	121	5
203	86	10	76	192	16	0	168	14	0	176	14	8	88	92	4
204	127	12	115	179	14	11	195	16	1	205	17	1	108	115	7
205	41	0	41	183	15	3	191	16	11	142	11	10	72	78	6
206	129	10	115	185	15	5	192	16	0	205	17	1	104	111	7
207	165	10	155	187	15	7	218	18	0	243	20	3	116	130	14
208	166	18	148	184	15	4	216	18	0	235	19	7	117	128	11
209	135	4	131	183	15	3	197	16	5	217	18	1	106	119	11
210	91	12	70	175	14	7	172	14	3	179	14	11	96	102	4
211	79	8	71	183	15	3	163	13	7	172	14	4	89	94	5
212	130	18	104	174	14	6	227	18	11	252	21	0	130	145	15
213	142	12	130	179	14	11	201	16	9	217	18	1	112	121	9
214	124	14	110	171	14	3	191	15	11	201	16	9	112	118	6
215	139	8	131	177	14	9	200	16	8	217	18	1	113	123	10
216	92	2	90	182	16	0	172	14	4	187	15	7	90	97	7
217	69	8	61	182	16	0	156	13	0	163	13	7	81	85	4
218	117	4	113	188	15	5	188	15	8	203	16	11	102	110	8
219	96	6	90	179	14	11	179	14	7	187	15	7	98	104	6
220	113	12	101	185	15	5	185	15	5	195	16	3	100	105	5
221	102	8	94	190	15	10	179	14	11	190	15	10	94	100	6
222	129	12	117	169	14	1	194	16	2	206	17	3	113	122	7
223	153	10	143	182	15	8	208	17	4	230	19	2	114	126	12
224	145	10	125	170	14	0	203	16	11	221	18	5	115	126	11
225	149	10	129	169	14	1	205	17	1	226	18	10	121	133	12

Terman Group Test (Continued)
Table I B

1. Candidate	2. Test Scrs with Arth	3. Arth. Scrs	4. Test Scrs no Arth.	5. C.A. Mths	6. C. A. Yr.	6. C. A. Mo.	7. M.A. with Arth. Mos	8. M. A. with Arth. Yr.	8. M. A. with Arth. Mo.	9. M.A. no Arth. Mos.	10. M. A. no Arth. Yr.	10. M. A. no Arth. Mo.	11. I. Q. with Arth.	12. I. Q. no Arth.	13. Diff. in I.Q.
226	128	6	122	176	14	8	194	16	2	210	17	6	110	119	9
227	109	20	89	185	15	5	183	15	3	187	15	7	99	101	2
228	117	4	113	180	15	0	188	15	8	203	16	11	104	113	9
229	137	12	125	177	14	9	198	16	6	213	17	9	112	120	8
230	153	10	143	178	14	10	208	17	4	230	19	2	117	129	12
231	174	14	160	173	14	5	222	18	6	240	20	8	124	143	19
232	172	10	162	164	13	8	158	13	2	163	13	7	96	99	3
233	115	12	103	174	14	6	187	15	7	196	16	4	107	113	6
234	143	14	129	183	15	3	202	16	10	216	18	0	110	118	8
235	153	14	139	178	14	10	208	17	4	226	18	10	117	127	10
236	83	10	73	169	14	1	165	13	9	173	14	5	98	102	4
237	67	6	61	182	15	2	154	12	10	163	13	7	85	90	5
238	101	2	99	192	16	0	178	14	10	193	16	1	93	101	8
239	137	14	123	177	14	9	198	16	6	211	17	7	112	119	7
240	70	2	68	192	16	0	157	13	1	169	14	1	82	88	8
241	155	14	141	176	14	8	209	17	5	227	18	11	119	129	10
242	115	12	103	174	14	6	187	15	7	196	16	4	107	113	6
243	124	12	112	178	14	10	191	15	11	202	16	10	107	113	6
244	116	14	102	172	14	4	187	15	7	195	16	3	109	113	4
245	100	8	92	187	15	7	177	14	9	188	15	8	95	101	6
246	88	2	86	185	15	5	169	14	1	184	15	4	91	99	8
247	109	12	97	178	14	10	183	15	3	192	16	0	103	108	5
248	148	10	138	176	14	8	205	17	1	224	18	8	116	127	11
249	137	6	131	168	14	0	198	16	6	217	18	1	118	129	11
250	110	12	98	184	15	4	183	15	3	192	16	0	99	104	5
251	111	8	103	177	14	9	184	15	4	196	16	4	104	111	7
252	191	12	179	171	14	3	236	19	8	254	21	2	138	149	11
253	122	16	106	170	14	2	190	15	10	198	16	6	112	116	4
254	124	16	108	172	14	4	191	15	11	200	16	8	111	116	5
255	112	4	108	173	14	5	185	15	5	200	16	8	107	116	9
256	139	8	131	182	15	2	200	16	8	217	18	1	110	119	9
257	128	8	120	173	14	3	194	16	2	208	17	4	112	120	8
258	106	0	106	178	14	10	181	15	1	198	16	6	102	111	9
259	96	16	80	177	14	9	175	14	7	179	14	11	99	101	2
260	112	6	106	180	15	0	185	15	5	198	16	6	103	110	7
261	130	8	122	177	14	9	195	16	3	210	17	6	110	119	9
262	74	10	64	192	16	0	159	13	3	165	13	9	83	86	3
263	111	14	97	171	14	3	184	15	4	192	16	0	108	112	4
264	112	8	104	174	14	6	185	15	5	197	16	5	106	113	7
265	69	8	61	172	14	4	156	13	0	163	13	7	91	95	4
266	138	8	130	178	14	10	199	16	7	217	18	1	112	122	10
267	89	12	77	168	14	0	170	14	2	177	14	9	101	105	4
268	168	20	148	180	15	0	217	18	1	235	19	7	121	131	10
269	87	10	77	192	16	0	168	14	0	177	14	9	88	92	4
270	112	8	104	168	14	0	185	15	5	197	16	5	110	117	7

Terman Group Test (Continued)
Table I B

1. Candidate	2. Test Scrs with Arth	3. Arth Scrs	4. Test Scrs no Arth.	5. C.A. Mths	6. C. A. Yr.	6. C. A. Mo.	7. M.A. with Arth Mos	8. M. A. with Arth. Yr.	8. M. A. with Arth. Mo	9. M.A. no Arth. Mos.	10. M. A. no Arth. Yr.	10. M. A. no Arth. Mo	11. I. Q. with Arth.	12. I. Q. no Arth.	13 Diff. in I.Q.
271	157	12	145	175	14	7	210	17	6	231	19	3	120	132	12
272	154	10	144	169	14	1	208	17	4	231	19	3	123	137	14
273	97	10	87	183	15	3	175	14	7	185	15	5	96	101	5
274	162	12	150	179	14	11	213	17	9	237	19	9	119	132	13
275	129	22	107	179	14	11	194	16	2	199	16	7	108	111	3
276	112	4	108	186	15	6	185	15	5	200	16	8	99	108	9
277	98	8	90	182	15	2	176	14	8	187	15	7	97	103	6
278	118	10	108	171	14	3	188	15	8	200	16	8	110	117	7
279	173	8	165	172	14	4	221	18	5	254	21	2	128	146	18
280	126	4	122	174	14	6	192	16	0	210	17	6	110	121	11
281	111	10	101	169	14	1	184	15	4	195	16	3	109	115	6
282	143	12	131	183	15	3	202	16	10	217	18	1	110	119	9
283	167	14	153	183	15	3	217	18	1	240	20	0	119	131	12
284	132	14	118	182	15	2	196	16	4	207	17	3	108	114	6
285	118	14	104	176	14	8	188	15	8	197	16	5	107	112	5
286	112	8	104	192	16	0	185	15	5	197	16	5	96	103	7
287	119	10	109	180	15	0	189	15	9	200	16	8	108	111	3
288	127	6	121	185	15	5	193	16	11	209	17	5	116	113	-3
289	187	24	163	172	14	4	232	19	4	251	20	11	135	146	11
290	138	10	128	168	14	0	199	16	7	215	17	11	118	128	10
291	107	12	95	175	14	7	182	15	2	190	15	10	104	109	5
292	129	14	115	174	14	6	194	16	2	205	17	1	111	118	7
293	114	6	108	189	15	9	186	15	6	200	16	8	98	106	8
294	118	14	104	178	14	10	188	15	8	197	16	5	106	111	5
295	148	12	136	174	14	6	205	17	1	223	18	7	118	128	10
296	142	18	124	174	14	6	201	16	9	212	17	8	115	122	7
297	141	12	129	179	14	11	201	16	9	216	18	0	112	121	9
298	121	10	111	183	15	3	190	15	10	202	16	10	104	110	6
299	155	12	143	174	14	6	209	17	5	230	19	2	120	132	12
300	127	10	117	171	14	3	193	16	1	206	17	2	113	120	7
301	101	4	97	171	14	3	178	14	10	192	16	0	104	112	8
302	133	10	123	178	14	10	196	16	4	211	17	7	110	119	9
303	124	10	114	169	14	1	191	15	11	204	17	0	113	121	8
304	96	8	88	192	16	0	175	14	7	185	15	5	91	96	5
305	123	14	109	204	17	0	191	15	11	200	16	8	94	98	4
306	70	8	62	163	13	7	157	13	1	163	13	7	96	100	4
307	180	18	162	175	14	7	227	18	11	250	20	10	129	143	14
308	103	6	97	180	15	0	179	14	11	192	16	0	99	107	8
309	104	8	96	192	16	0	180	15	0	191	15	11	94	99	5
310	112	8	104	173	14	5	185	15	5	197	16	5	107	114	7
311	111	16	95	170	14	2	184	15	4	190	15	10	108	112	4

TABLE II B (See Text)

Terman Group Test of Mental Ability

MENTAL AGE EQUIVALENTS FOR SCORES INCLUDING AND EXCLUDING ARITHMETIC

Score with Arith.	Arithmetic per cent .218	Score without Arith.	Mental Ages in months
41	8.94	32.06	131
42	9.16	32.84	132
43	9.37	33.63	133
44	9.59	34.41	134
45	9.81	35.19	135
46	10.03	35.97	135
47	10.25	36.75	136
48	10.46	37.54	137
49	10.68	38.32	138
50	10.90	39.10	139
51	11.12	39.88	140
52	11.34	40.66	141
53	11.55	41.45	142
54	11.77	42.23	143
55	11.99	43.01	144
56	12.20	43.80	145
57	12.43	44.57	145
58	12.64	45.36	146
59	12.86	46.14	147
60	13.08	46.92	148
61	13.30	47.70	149
62	13.52	48.48	150
63	13.73	49.27	151
64	13.95	50.05	151
65	14.17	50.83	152
66	14.39	51.61	153
67	14.61	52.39	154
68	14.82	53.18	155
69	15.04	53.96	156
70	15.26	54.74	157
71	15.48	55.52	157
72	15.70	56.30	158
73	15.91	57.09	158
74	16.12	57.88	159
75	16.35	58.65	160
76	16.57	59.43	160
77	16.79	60.21	161
78	17.00	61.00	162
79	17.22	61.78	163

TERMAN SCORE CHART

Table II B

Score with Arith.	Arithmetic per cent .218	Score without Arith.	Mental Ages in months
80	17.44	62.56	163
81	17.66	63.34	164
82	17.88	64.12	165
83	18.09	64.91	165
84	18.31	65.69	166
85	18.53	66.47	167
86	18.75	67.25	168
87	18.97	68.03	168
88	19.18	68.82	169
89	19.40	69.60	170
90	19.62	70.38	170
91	19.84	71.16	171
92	20.06	71.94	172
93	20.27	72.73	173
94	20.49	73.51	173
95	20.71	74.29	174
96	20.93	75.07	175
97	21.15	75.85	175
98	21.36	76.64	176
99	21.58	77.42	177
100	21.80	78.20	177
101	22.02	78.98	178
102	22.24	79.76	179
103	22.45	80.55	179
104	22.67	81.33	180
105	22.89	82.11	181
106	23.11	82.89	181
107	23.33	83.67	182
108	23,54	84.46	182
109	23.76	85.24	183
110	23.98	86.02	183
111	24.20	86.80	184
112	24.42	87.58	185
113	24.63	88.37	185
114	24.85	89.15	186
115	25.07	89.93	187
116	25.29	90.71	187
117	25.51	91.49	188
118	25.72	92.28	188
119	25.94	93.06	189
120	26.16	93.84	189
121	26.38	94.62	190
122	26.60	95.40	190
123	26.81	96.19	191
124	27.03	96.97	191

TERMAN SCORE CHART

Table II B

Score with Arith.	Arithmetic per cent .218	Score without Arith.	Mental Ages in months
125	27.25	97.75	192
126	27.47	98.53	192
127	27.69	99.31	193
128	27.91	100.09	194
129	28.13	100.87	194
130	28.34	101.66	195
131	28.56	102.44	195
132	28.78	103.22	196
133	28.99	104.01	196
134	29.21	104.79	197
135	29.43	105.57	197
136	29.65	106.35	198
137	29.87	107.13	198
138	30.08	107.92	199
139	30.30	108.70	200
140	30.52	109.48	200
141	30.74	110.26	201
142	30.96	111.04	201
143	31.17	111.83	202
144	31.39	112.61	202
145	31.61	113.39	203
146	31.82	114.17	203
147	32.05	114.95	204
148	32.26	115.74	205
149	32.48	116.52	205
150	32.70	117.30	206
151	32.92	118.08	206
152	33.14	118.86	207
153	33.35	119.65	208
154	33.57	120.43	208
155	33.79	121.21	209
156	34.01	121.99	209
157	34.23	122.77	210
158	34.44	123.56	211
159	34.66	124.34	212
160	34.88	125.12	212
161	35.10	125.90	213
162	35.32	126.68	213
163	35.53	127.47	214
164	35.75	128.25	215
165	35.97	129.03	216
166	36.19	129.81	216
167	36.41	130.59	217
168	36.62	131.38	217
169	36.84	132.16	218

Table II B

TERMAN SCORE CHART

Table II B

Score with Arith.	Arithmetic per cent .218	Score without Arith.	Mental Ages in months
170	37.06	132.94	219
171	37.28	133.72	220
172	37.50	134.50	220
173	37.71	135.29	221
174	37.93	136.07	222
175	38.15	136.85	223
176	38.37	137.63	224
177	38.59	138.41	224
178	38.80	139.20	225
179	39.02	139.98	226
180	39.24	140.76	227
181	39.46	141.54	227
182	39.68	142.32	228
183	39.89	143.11	229
184	40.11	143.89	230
185	40.33	144.67	231
186	40.55	145.45	231
187	40.77	146.23	232
188	40.98	147.02	233
189	41.20	147.80	234
190	41.42	148.58	235
191	41.64	149.36	236
192	41.86	150.14	236
193	42.07	150.93	237
194	42.29	151.71	238
195	42.51	152.49	239
196	42.73	153.27	240
197	42.95	154.05	241
198	43.16	154.84	242
199	43.38	155.62	243
200	43.60	156.40	244
201	43.82	157.18	245
202	44.04	157.96	246
203	44.25	158.75	246
204	44.47	159.53	247
205	44.69	160.31	248
206	44.91	161.09	248
207	45.13	161.87	249
208	45.34	162.66	250
209	45.56	163.44	251
210	45.78	164.22	252
211	46.00	165.00	253
212	46.22	165.78	254

(from page 18)
Since the possible total score on the test is 220, the proportional arithmetic is $\frac{48}{220}$ or 21.8%. To figure therefore a new table of values on the Terman Group Test for determining mental age without arithmetic, each value as appears in column I of Table IIB, pages 26-29 is reduced by 21.8%. The new values thus reduced, as shown in column 3 have the same mental age as shown in column 4, without arithmetic as were given in Terman's table for the corresponding un-reduced scores.

In the Revised Army Alpha there are eight sections. The sections with a weighted score for each section and a final total score, if all are correct, are indicated herewith:

Sections	Rights		Weighting	Score
1	24		x 2	12
2	20		-	20
3	16		-	16
4	40		-	40
5	24	- (wrong)	-	24
6	20	- (wrong)	-	20
7	40		-	40
8	20	x 2 up to a score of 8 x 3 after a score of 8	-	40
	Total Score.....			212

The arithmetic sections of the Revised Army Alpha are:

Sections	Score	
1	12	
2	20	
6	20	
	52	Total arithmetic score

The total score which can be made in the arithmetic sections, therefore, is 52. The total score on the entire test is 212. The arithmetic per cent, therefore, is $\frac{52}{212}$ or 24.5%. A new table of values without arithmetic for the Revised Army Alpha (Table IIC, pages 37-40) was constructed along lines similar to methods used with the National Intelligence Test and Terman Group Test. (See page 37)

(Continued on page 41)

Table IC (see Text)

Revised Alpha Examination Form 7

AN INTENSIFIED SUMMARY OF RESEARCH INFORMATION

1. Candidate	2. Total Score	3. Test 1	4. Test 2	5. Test 3	6. Arith. Score	7. Test Scr.no Arith.	8. C. A. Mos.	9. C. A. Yr.	10. C. A. Mos.
1	118	17 ÷ 2 = 8	13	16	37	81	204	17	0
2	125	23 ÷ 2 = 11	12	14	37	88	222	18	6
3	89	24 ÷ 2 = 12	10	8	30	59	241	20	1
4	105	19 ÷ 2 = 9	7	11	27	78	213	17	9
5	107	10 ÷ 2 = 5	8	7	20	87	219	18	3
6	125	23 ÷ 2 = 11	12	14	37	88	221	18	5
7	111	21 ÷ 2 = 10	9	10	29	82	219	18	3
8	100	15 ÷ 2 = 7	6	10	23	77	221	18	5
9	114	16 ÷ 2 = 8	12	8	28	86	225	18	9
10	124	18 ÷ 2 = 9	8	8	25	99	218	18	2
11	141	23 ÷ 2 = 11	9	13	33	108	206	17	2
12	151	19 ÷ 2 = 9	8	14	31	120	214	17	10
13	134	20 ÷ 2 = 10	12	13	35	99	217	18	1
14	109	22 ÷ 2 = 11	10	9	30	79	216	18	0
15	147	17 ÷ 2 = 8	11	12	31	116	201	16	9
16	152	22 ÷ 2 = 11	10	12	33	119	216	18	0
17	132	24 ÷ 2 = 12	9	12	33	99	204	17	0
18	134	19 ÷ 2 = 9	12	11	32	102	227	18	11
19	128	19 ÷ 2 = 9	7	14	30	98	203	16	11
20	135	23 ÷ 2 = 11	11	13	35	100	210	17	6
21	142	18 ÷ 2 = 9	12	16	37	105	209	17	5
22	128	23 ÷ 2 = 11	10	12	33	95	203	16	11
23	133	22 ÷ 2 = 11	8	11	30	103	215	17	11
24	169	21 ÷ 2 = 10	9	15	34	135	212	17	8
25	141	19 ÷ 2 = 9	14	14	37	104	208	17	4
26	142	20 ÷ 2 = 10	13	15	38	104	216	18	0
27	102	19 ÷ 2 = 9	8	9	26	76	231	19	3
28	116	23 ÷ 2 = 11	11	13	35	81	222	18	6
29	96	0 ÷ 2 = 0	8	10	18	78	208	17	4
30	153	23 ÷ 2 = 11	7	7	25	128	217	18	1
31	139	19 ÷ 2 = 9	11	7	27	112	219	18	3
32	172	19 ÷ 2 = 9	15	18	42	130	204	17	0
33	141	24 ÷ 2 = 12	11	7	30	111	209	17	5
34	131	20 ÷ 2 = 10	12	14	36	95	213	17	9
35	134	18 ÷ 2 = 9	11	9	29	105	213	17	9
36	126	19 ÷ 2 = 9	11	13	33	93	224	18	8
37	119	17 ÷ 2 = 8	10	10	28	91	211	17	7
38	129	21 ÷ 2 = 10	8	12	30	99	204	17	0
39	121	24 ÷ 2 = 12	8	9	29	92	205	17	1
40	147	23 ÷ 2 = 11	10	16	37	110	206	17	2
41	146	20 ÷ 2 = 10	12	15	37	109	201	16	9
42	138	21 ÷ 2 = 10	6	10	26	112	206	17	2
43	129	22 ÷ 2 = 11	10	10	31	98	216	18	0
44	125	24 ÷ 2 = 12	10	13	35	90	210	17	6
45	116	21 ÷ 2 = 10	8	9	27	89	204	17	0

11. A. th ith. os.	12. M.A. with Arith. Yr.	Mos.	13. M. A. no Arith. Mos.	14. M.A. no Arith. Yr.	Mos.	15. I. Q. with Arith.	16. I. Q. no Arith.	17. Difference in I. Q.
06	17	2	200	16	8	101	98	-3
09	17	5	206	17	2	94	93	-1
89	15	9	181	15	1	78	75	-3
99	16	7	198	16	6	93	93	0
00	16	8	205	17	1	91	94	3
09	17	5	206	17	2	95	93	-2
02	16	10	201	16	9	92	92	0
96	16	4	198	16	6	89	90	1
04	17	0	205	17	1	91	91	0
09	17	5	214	17	10	96	98	2
18	18	2	220	18	4	106	107	1
23	18	7	228	19	0	104	107	3
15	17	11	214	17	10	99	99	0
01	16	9	199	16	7	93	92	-1
21	18	5	225	18	9	110	112	2
24	18	8	227	18	11	104	105	1
14	17	10	214	17	10	105	105	0
15	17	11	216	18	0	95	95	0
11	17	7	213	17	9	104	105	1
16	18	0	214	17	10	103	102	-1
19	18	3	218	18	2	105	105	0
11	17	7	210	17	6	104	104	0
14	17	10	217	18	1	100	101	1
33	19	5	240	20	0	109	113	4
18	18	2	218	18	2	105	105	0
19	18	3	218	18	2	101	101	0
97	16	5	196	16	4	85	85	0
05	17	1	200	16	8	92	90	-2
94	16	2	198	16	6	93	95	2
24	18	8	234	19	6	103	108	5
18	18	2	222	18	6	100	101	1
35	19	7	236	19	8	115	116	1
18	18	2	222	18	6	104	106	2
13	17	9	210	17	6	100	99	-1
15	17	11	218	18	2	101	102	1
10	17	6	209	17	5	94	93	-1
06	17	2	209	17	3	99	91	-8
12	17	8	214	17	10	104	105	1
07	17	3	208	17	4	101	101	0
21	18	5	221	18	5	107	107	0
21	18	5	220	18	4	110	110	0
17	18	1	222	18	6	106	108	2
12	17	8	213	17	9	98	98	0
09	17	5	207	17	3	100	99	-1
05	17	1	206	17	2	100	101	1

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Table I C

1. Candidate	2. Total Score	3. Test 1	4.	5. Test 2	6. Test 3	7. Arith. Score	8. Test Scr. no Arith.	9. C. A. Mos.	10. C. A. Yr.	Mos.
46	126	22 ÷ 2 =	11	8	11	30	96	221	18	5
47	109	20 ÷ 2 =	10	11	13	34	75	220	18	4
48	174	23 ÷ 2 =	11	11	16	38	136	213	17	9
49	140	19 ÷ 2 =	9	7	12	28	112	217	18	1
50	138	16 ÷ 2 =	8	8	9	25	113	216	18	0
51	124	15 ÷ 2 =	7	7	13	27	97	212	17	8
52	115	24 ÷ 2 =	12	10	8	30	85	206	17	2
53	118	18 ÷ 2 =	9	6	8	23	95	217	18	1
54	136	19 ÷ 2 =	9	10	13	32	104	215	17	11
55	133	21 ÷ 2 =	10	10	5	25	108	217	18	1
56	122	19 ÷ 2 =	9	9	10	28	94	232	19	4
57	138	19 ÷ 2 =	9	9	12	30	108	218	18	2
58	157	21 ÷ 2 =	10	9	11	30	127	206	17	2
59	138	16 ÷ 2 =	8	9	11	28	110	203	16	11
60	123	11 ÷ 2 =	5	10	7	22	101	221	18	5
61	133	15 ÷ 2 =	7	9	13	29	104	206	17	2
62	117	17 ÷ 2 =	8	8	12	28	189	207	17	3
63	160	23 ÷ 2 =	11	12	15	38	122	209	17	5
64	152	22 ÷ 2 =	11	10	15	36	116	213	17	9
65	137	18 ÷ 2 =	9	8	10	27	110	206	17	2
66	99	17 ÷ 2 =	8	7	7	22	77	226	18	10
67	156	21 ÷ 2 =	10	13	11	34	122	212	17	8
68	148	23 ÷ 2 =	11	10	12	33	115	210	17	6
69	127	18 ÷ 2 =	9	8	11	28	99	217	18	1
70	96	16 ÷ 2 =	8	7	6	21	75	204	17	0
71	125	16 ÷ 2 =	8	8	8	24	101	189	15	9
72	78	21 ÷ 2 =	10	4	0	14	64	222	18	6
73	112	21 ÷ 2 =	10	13	8	31	81	214	17	10
74	90	9 ÷ 2 =	4	10	10	24	66	207	17	3
75	137	24 ÷ 2 =	12	8	14	34	103	189	15	9
76	109	14 ÷ 2 =	7	6	7	20	89	202	16	10
77	105	16 ÷ 2 =	8	10	11	29	76	207	17	3
78	140	21 ÷ 2 =	10	10	9	29	111	208	17	4
79	89	23 ÷ 2 =	11	7	11	29	60	194	16	2
80	111	18 ÷ 2 =	9	10	12	31	80	180	15	0
81	66	15 ÷ 2 =	7	8	6	21	45	180	15	0
82	126	14 ÷ 2 =	7	7	4	18	108	204	17	0
83	100	20 ÷ 2 =	10	11	11	32	68	201	16	9
84	67	21 ÷ 2 =	10	7	9	26	41	215	17	11
85	92	19 ÷ 2 =	9	8	7	24	66	203	16	11
86	54	18 ÷ 2 =	9	7	3	19	35	213	17	9
87	120	17 ÷ 2 =	8	8	10	26	94	219	18	3
88	112	14 ÷ 2 =	7	9	5	21	91	206	17	2
89	92	18 ÷ 2 =	9	8	5	22	70	215	17	11
90	50	11 ÷ 2 =	5	3	4	12	38	217	18	1

11. M. A. with Arith. Mos.	12. M.A. with Arith. Yr.	12. M.A. with Arith. Mos.	13. M. A. no Arith. Mos.	14. M. A. no Arith. Yr.	14. M. A. no Arith. Mos.	15. I. Q. with Arith.	16 I. Q. no Arith.	17. Difference in I. Q.
210	17	6	211	17	7	95	95	0
201	16	9	196	16	4	91	89	-2
236	19	8	241	20	1	111	113	2
218	18	2	222	18	6	100	102	2
217	18	1	223	18	7	100	103	3
209	17	5	212	17	8	99	100	1
205	17	1	204	17	0	100	99	-1
206	17	2	210	17	6	95	97	2
216	18	0	218	18	2	100	101	1
214	17	10	220	18	4	99	101	2
208	17	4	209	17	5	90	90	0
216	18	1	220	18	4	99	101	2
226	18	10	233	19	5	110	113	3
217	18	1	221	18	5	107	109	2
208	17	4	215	17	11	94	98	4
214	17	10	218	18	2	104	106	2
206	17	2	206	17	2	100	100	0
228	19	0	229	19	1	109	110	1
224	18	8	225	18	9	105	106	1
217	18	1	221	18	5	105	107	2
195	16	3	198	16	6	86	88	2
226	18	1	229	19	1	107	108	1
222	18	6	224	18	8	106	107	1
210	17	6	214	17	10	97	99	2
194	16	2	196	16	4	95	96	1
209	17	3	216	18	0	111	114	3
180	15	0	186	15	6	81	84	3
203	16	11	200	16	8	95	93	-2
190	15	10	188	15	8	92	91	-1
211	18	1	217	18	1	115	115	0
201	16	9	206	17	2	100	102	2
199	16	7	196	16	4	96	95	-1
218	18	2	222	18	6	105	107	2
189	15	9	182	15	2	97	94	-3
202	16	10	200	16	8	112	111	-1
170	14	2	165	13	9	94	92	-2
210	17	6	220	18	4	103	108	5
196	16	4	190	15	10	98	95	-3
171	14	3	160	13	4	80	74	-6
191	15	11	188	15	8	94	93	-1
160	13	4	156	13	0	75	73	-2
207	17	3	209	17	5	95	95	0
203	16	11	207	17	3	99	100	1
191	15	11	192	16	0	89	89	0
157	13	1	158	13	2	72	73	1

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Table I C

1. Candidate	2. Total Score	3. Test 1	4.	5. Test 2	6. Test 3	7. Arith. Score	8. Test Scr.no Arith.	9. C. A. Mos.	10 C. A. Yr.	10 C. A. Mos.
91	84	17	÷ 2 = 8	8	8	24	60	216	18	0
92	140	19	÷ 2 = 9	14	11	34	106	221	18	5
93	137	15	÷ 2 = 7	11	14	32	105	207	17	3
94	83	19	÷ 2 = 9	6	7	22	61	180	15	0
95	111	21	÷ 2 = 10	8	13	31	80	209	17	5
96	129	15	÷ 2 = 7	11	14	32	97	194	16	2
97	137	12	÷ 2 = 6	12	11	29	108	195	16	3
98	144	13	÷ 2 = 6	11	10	27	117	198	16	6
99	57	14	÷ 2 = 7	8	4	19	38	219	18	3
100	88	15	÷ 2 = 7	7	7	21	67	215	17	11
101	96	17	÷ 2 = 8	8	10	26	70	220	18	4
102	114	16	÷ 2 = 8	8	8	24	90	209	17	5
103	125	18	÷ 2 = 9	10	7	26	99	141	11	9
104	131	14	÷ 2 = 7	10	15	32	99	215	17	11
105	112	11	÷ 2 = 5	7	8	20	92	200	16	8
106	121	20	÷ 2 = 10	10	10	30	91	209	17	5
107	87	18	÷ 2 = 9	8	6	23	64	216	18	0
108	119	14	÷ 2 = 7	12	13	32	87	194	16	2
109	132	20	÷ 2 = 10	9	10	29	103	208	17	4
110	115	18	÷ 2 = 9	10	11	30	85	206	17	2
111	123	19	÷ 2 = 9	9	15	33	90	195	16	3
112	114	21	÷ 2 = 10	9	9	28	86	207	17	3
113	85	22	÷ 2 = 11	8	6	25	60	239	19	11
114	123	17	÷ 2 = 8	10	11	29	94	207	17	3
115	93	24	÷ 2 = 12	6	4	22	71	192	16	0
116	116	13	÷ 2 = 6	13	10	29	87	226	18	10
117	114	21	÷ 2 = 10	9	10	29	85	203	16	11
118	148	17	÷ 2 = 8	8	9	25	123	193	16	1
119	104	13	÷ 2 = 6	6	8	20	84	204	17	0
120	104	15	÷ 2 = 7	10	11	28	76	217	18	1
121	128	22	÷ 2 = 11	12	14	37	91	210	17	6
122	97	14	÷ 2 = 7	8	12	27	70	219	18	3
123	121	23	÷ 2 = 11	10	12	33	88	207	17	3
124	144	22	÷ 2 = 11	11	11	33	111	205	17	1
125	128	14	÷ 2 = 7	8	9	24	104	205	17	1
126	139	22	÷ 2 = 11	11	15	37	102	201	16	9
127	167	22	÷ 2 = 11	5	9	25	142	204	17	0
128	157	23	÷ 2 = 11	14	17	42	115	203	16	11
129	145	18	÷ 2 = 9	8	13	30	115	205	17	1
130	138	22	÷ 2 = 11	9	9	29	109	207	17	3
131	133	18	÷ 2 = 9	8	11	28	105	208	17	4
132	191	22	÷ 2 = 11	16	19	46	145	203	16	11
133	129	13	÷ 2 = 6	11	15	32	97	208	17	4
134	140	18	÷ 2 = 9	11	14	34	106	186	15	6
135	108	16	÷ 2 = 8	9	10	27	81	222	18	6

11. M. A. with Arith. Mos.	12. M.A. with Arith. Yr.	Mos.	13. M. A. no Arith. Mos.	14. M. A. no Arith. Yr.	Mos.	15. I. Q. with Arith.	16. I. Q. no Arith	17. Difference in I. Q.
184	15	4	182	15	2	85	84	-1
218	18	2	218	18	2	99	99	0
217	18	1	218	18	2	105	105	0
184	15	4	183	15	2	102	102	0
202	16	10	200	16	8	97	96	-1
212	17	8	212	17	8	109	109	0
217	18	1	220	18	4	111	113	2
220	18	4	226	18	10	111	114	3
162	13	6	158	13	2	74	72	-2
188	15	8	190	15	10	87	88	1
194	16	2	192	16	0	88	87	-1
204	17	0	207	17	3	98	99	1
209	17	5	214	17	10	148	152	4
213	17	9	214	17	10	99	100	1
203	16	11	208	17	4	102	104	2
207	17	3	207	17	3	99	99	0
187	15	7	186	15	6	87	86	-1
206	17	2	205	17	1	106	106	0
214	17	10	217	18	1	103	104	1
205	17	1	204	17	0	100	99	-1
208	17	4	207	17	3	107	106	-1
204	17	0	205	17	1	99	99	0
185	15	5	182	15	2	77	76	-1
208	17	4	209	17	5	100	101	1
192	16	0	193	16	1	100	100	0
205	17	1	205	17	1	91	91	0
204	17	0	204	17	0	100	101	1
222	18	6	230	19	1	115	119	4
198	16	6	203	16	11	98	100	2
198	16	6	196	16	4	91	90	-1
211	17	7	207	17	3	100	99	-1
194	16	2	192	16	0	89	88	-1
207	17	3	206	17	2	100	100	0
220	18	4	222	18	6	107	108	1
211	17	1	218	18	2	103	106	3
218	18	2	216	18	0	108	107	-1
232	19	4	245	20	5	114	120	6
226	18	10	224	18	8	111	110	-1
220	18	4	224	18	8	107	109	2
217	18	1	220	18	4	105	106	1
214	17	10	218	18	2	103	105	2
246	20	6	247	20	7	121	122	1
212	17	8	212	17	8	102	102	0
218	18	2	218	18	2	117	117	0
200	16	8	200	16	8	99	91	-8

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Table I C

1. Candidate	2. Total Score	3.	4. Test 1			5. Test 2	6. Test 3	7. Arith. Score	8. Test Scr. no Arith.	9. C. A. Mos.	10 C. A. Yr.	Mos.
136	132	22	2	=	11	10	7	28	104	217	18	1
137	110	9	2	=	4	9	5	18	92	214	17	10
138	154	22	2	=	11	11	18	40	114	206	17	2
139	114	22	2	=	11	11	15	37	77	211	17	7
140	98	20	2	=	10	10	5	25	73	228	19	0
141	156	22	2	=	11	8	12	31	125	209	17	5
142	101	18	2	=	9	12	9	30	71	191	15	11
143	138	20	2	=	10	11	13	34	104	213	17	9
144	105	22	2	=	11	8	14	33	72	216	18	0
145	166	21	2	=	10	9	14	33	133	204	17	0
146	175	21	2	=	10	11	16	37	138	203	16	11
147	150	22	2	=	11	14	16	41	109	218	18	2
148	101	18	2	=	9	6	9	24	77	227	18	11
149	151	21	2	=	10	11	10	31	120	203	16	11
150	154	20	2	=	10	16	14	40	114	206	17	2
151	163	20	2	=	10	14	16	40	123	204	17	0
152	130	23	2	=	11	8	12	31	99	220	18	4
153	170	24	2	=	12	10	19	41	139	204	17	0
154	133	20	2	=	10	12	16	38	95	215	17	11
155	158	20	2	=	10	10	12	32	126	217	18	1
156	165	24	2	=	12	9	13	34	131	202	16	10
157	128	20	2	=	10	8	11	29	99	224	18	8
158	155	18	2	=	9	10	15	34	121	208	17	4
159	85	14	2	=	7	6	5	18	67	203	16	11
160	133	24	2	=	12	10	6	28	105	202	16	10
161	153	19	2	=	9	11	11	31	122	206	17	2
162	125	20	2	=	10	13	10	33	92	208	17	4
163	139	18	2	=	9	11	13	33	106	210	17	6
164	141	22	2	=	11	11	9	31	110	202	16	10
165	148	18	2	=	9	11	13	33	115	202	16	10
166	140	19	2	=	9	9	14	32	108	209	17	5
167	122	19	2	=	9	9	13	31	91	211	17	7
168	92	17	2	=	8	7	5	20	72	204	17	0
169	146	18	2	=	9	11	9	29	117	203	16	11
170	110	15	2	=	7	10	10	27	83	228	19	0
171	139	15	2	=	7	11	9	27	112	212	17	8
172	144	23	2	=	11	9	12	32	112	214	17	10
173	152	20	2	=	10	10	13	33	119	215	17	11
174	125	21	2	=	10	7	12	29	96	203	16	11
175	162	21	2	=	10	11	15	36	126	215	17	11
176	99	13	2	=	6	7	7	20	79	210	17	6
177	148	22	2	=	11	10	10	31	117	209	17	5
178	176	22	2	=	11	13	12	36	140	208	17	4
179	161	22	2	=	11	11	14	36	125	209	17	5
180	159	24	2	=	12	10	14	36	123	208	17	4

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11. M. A. with Arith. Mos.	12. M. A. with Arith. Yr.	12. M. A. with Arith. Mos.	13. M. A. no Arith. Mos.	14. M. A. no Arith. Yr.	14. M. A. no Arith. Mos.	15. I. Q. with Arith.	16. I. Q. no Arith.	17. Difference in I. Q.
214	17	10	218	18	2	99	101	2
202	16	10	208	17	4	94	97	3
225	18	9	224	18	8	109	109	0
204	17	0	198	16	6	97	96	-1
195	16	3	195	16	3	86	86	0
226	18	10	232	19	4	108	111	-7
196	16	4	193	16	1	103	101	-2
217	18	1	218	18	2	102	102	0
199	16	7	194	16	2	92	90	-2
232	19	4	238	19	10	114	117	3
237	19	9	242	20	2	117	119	2
223	18	7	220	18	4	102	101	-1
196	16	4	198	16	6	86	87	1
223	18	7	228	19	0	110	112	2
225	18	9	224	18	8	109	109	0
230	19	2	230	19	2	113	113	0
212	17	8	214	17	10	96	97	1
234	19	6	243	20	3	115	119	4
214	17	10	210	17	6	100	98	-2
227	18	11	232	19	4	105	107	2
231	19	3	236	19	8	114	117	3
211	17	7	214	17	10	94	96	2
225	18	9	228	19	0	108	110	2
185	15	5	190	15	10	91	94	3
214	17	10	218	18	2	106	108	2
224	18	8	229	19	1	109	111	2
209	17	5	208	17	4	100	100	0
218	18	2	218	18	2	104	104	0
218	18	2	221	18	5	108	109	1
222	18	6	224	18	8	110	111	1
218	18	2	220	18	4	104	105	1
208	17	4	207	17	3	99	98	-1
191	15	11	194	16	2	94	95	1
221	18	5	226	18	10	109	111	2
202	16	10	202	16	10	89	89	0
218	18	2	222	18	6	103	105	2
220	18	4	222	18	6	103	104	1
224	18	8	227	18	11	104	106	2
209	17	5	211	17	7	103	104	1
229	19	1	233	19	5	107	108	1
195	16	3	199	16	7	93	95	2
222	18	6	226	18	10	106	108	2
238	19	10	243	20	3	114	117	3
228	19	0	232	19	4	109	111	-8
227	18	11	230	19	2	109	111	-8

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Table I C

1. Candidate	2. Total Score	3.	4. Test 1			5. Test 2	6. Test 3	7. Arith. Score	8. Test Scr.no Arith.	9. C. A. Mos.	10. C. A. Yr.	Mos.
181	120	16	2	=	8	10	9	27	93	212	17	8
182	128	20	2	=	10	8	12	30	98	216	18	0
183	149	22	2	=	11	12	16	39	110	196	16	4
184	146	15	2	=	7	13	14	34	112	208	17	4
185	149	22	2	=	11	9	11	31	118	207	17	3
186	148	6	2	=	3	11	11	25	123	207	17	3
187	173	20	2	=	10	13	15	38	135	206	17	2
188	129	22	2	=	11	9	10	30	99	195	16	3
189	162	23	2	=	11	13	17	41	121	213	17	9
190	118	22	2	=	11	8	14	33	85	209	17	5
191	144	18	2	=	9	13	13	35	109	215	17	11
192	131	16	2	=	8	9	9	26	105	207	17	3
193	150	20	2	=	10	10	16	36	114	208	17	4
194	124	18	2	=	9	10	11	30	94	213	17	9
195	84	24	2	=	12	8	6	26	58	204	17	0
196	108	14	2	=	7	7	10	24	94	212	17	8
197	134	18	2	=	9	9	11	29	105	215	17	11
198	156	20	2	=	10	9	16	35	121	208	17	4
199	136	18	2	=	9	11	14	34	102	203	16	11
200	144	18	2	=	9	11	15	35	109	223	18	7
201	104	18	2	=	9	8	7	24	80	213	17	9
202	160	18	2	=	9	11	14	34	126	204	17	0
203	134	16	2	=	8	10	13	31	103	203	16	11
204	174	16	2	=	8	12	15	35	139	208	17	4
205	135	22	2	=	11	12	13	36	99	222	18	6
206	134	22	2	=	11	14	9	34	100	211	17	7
207	132	24	2	=	12	9	8	29	103	214	17	10
208	93	12	2	=	6	5	7	18	75	222	18	6
209	66	16	2	=	8	5	5	18	48	208	17	4
210	167	16	2	=	8	12	15	35	132	212	17	8
211	101	16	2	=	8	9	7	24	77	210	17	6
212	118	16	2	=	8	11	13	32	86	216	18	0
213	115	14	2	=	7	10	11	28	87	209	17	5
214	191	22	2	=	11	10	16	40	151	206	17	2
215	173	18	2	=	9	12	10	31	142	196	16	4
216	141	16	2	=	8	13	9	30	111	200	16	8
217	143	20	2	=	10	9	17	36	107	211	17	7
218	142	20	2	=	10	10	14	34	108	207	17	3
219	110	16	2	=	8	9	10	27	83	215	17	11
220	132	16	2	=	8	10	11	29	103	205	17	1
221	149	24	2	=	12	10	13	35	114	211	17	7
222	106	22	2	=	11	11	8	30	76	219	18	3
223	121	14	2	=	7	9	12	30	91	206	17	2
224	123	18	2	=	9	10	11	21	102	203	16	11
225	161	12	2	=	6	12	13	31	130	222	18	6

11. A. with Arith. Mos.	12. M. A. with Arith. Yr.	Mos.	13. M. A. no Arith. Mos.	14. M. A. no Arith. Yr.	Mos.	15. I. Q. with Arith.	16. I. Q. no Arith.	17. Difference in I. Q.
207	17	3	209	17	5	98	99	1
211	17	7	213	17	9	98	99	1
222	18	6	221	18	5	113	113	0
221	18	5	222	18	6	106	107	1
222	18	6	226	18	10	107	109	2
222	18	6	230	19	2	107	111	-3
236	19	8	240	20	0	115	117	2
212	17	8	214	17	10	109	110	1
229	19	1	228	19	0	108	107	-1
206	17	2	204	17	0	99	98	-1
220	18	4	220	18	4	102	102	0
213	17	9	218	18	2	103	105	2
223	18	7	224	18	8	107	108	1
209	17	5	209	17	5	98	98	0
184	15	4	180	15	0	90	88	-2
200	16	8	203	16	11	94	96	2
215	17	11	218	18	2	100	101	1
226	18	10	228	19	0	109	110	1
216	18	0	216	18	0	106	106	0
220	18	4	220	18	4	99	99	0
198	16	6	200	16	8	93	94	1
228	19	0	233	19	5	112	114	2
215	17	11	217	18	1	106	107	1
236	19	8	243	20	3	113	117	4
216	18	0	214	17	10	97	96	-1
215	17	11	214	17	10	102	101	-1
214	17	10	217	18	1	100	101	1
192	16	0	196	18	4	86	88	2
170	14	2	169	14	1	82	81	-1
232	19	4	237	19	1	109	112	3
196	16	4	198	16	6	93	94	1
206	17	2	205	17	1	95	95	0
205	17	1	205	17	1	98	98	0
246	20	6	251	20	11	119	122	3
236	19	8	245	20	5	120	125	5
218	18	2	222	18	6	109	111	2
219	18	3	219	18	3	104	104	0
219	18	3	220	18	4	106	106	0
202	16	10	202	16	10	94	94	0
214	17	10	217	18	1	104	106	2
222	18	6	224	18	8	105	106	1
200	16	8	196	16	4	92	89	-3
207	17	3	207	17	3	101	101	0
208	17	4	216	18	0	102	106	4
228	19	0	236	19	8	103	106	3

ARMY ALPHA

Table I C

1. Candidate	2. Total Score	3. Test 1	4.	5. Test 2	6. Test 3	7. Arith. Score	8. Test Scr. no Arith.	9. C. A. Mos.	10. C. A. Yr.	10. C. A. Mos.
226	152	18	÷ 2 = 9	15	17	41	111	221	18	5
227	131	16	÷ 2 = 8	9	9	26	105	207	17	3
228	150	20	÷ 2 = 10	10	16	36	114	208	17	4
229	124	18	÷ 2 = 9	10	11	30	94	213	17	9
230	84	24	÷ 2 = 12	8	6	26	58	204	17	0
231	108	14	÷ 2 = 7	7	10	24	84	212	17	8
232	134	18	÷ 2 = 9	9	11	29	105	215	17	11
233	156	20	÷ 2 = 10	9	16	35	121	208	17	4
234	144	18	÷ 2 = 9	11	15	35	109	223	18	7
235	104	18	÷ 2 = 9	8	7	24	80	213	17	9
236	116	14	÷ 2 = 7	10	12	29	87	212	17	8
237	136	18	÷ 2 = 9	11	14	34	102	203	16	11
238	80	7	÷ 2 = 3	9	10	22	58	219	18	3
239	64	15	÷ 2 = 7	6	3	16	48	207	17	3
240	138	22	÷ 2 = 11	11	15	37	101	189	15	9
241	123	23	÷ 2 = 11	12	12	35	88	183	15	3
242	122	22	÷ 2 = 11	10	13	34	88	183	15	3
243	102	21	÷ 2 = 10	9	11	30	72	216	18	0
244	89	10	÷ 2 = 5	7	10	22	67	203	16	11
245	165	20	÷ 2 = 10	14	16	40	125	200	16	8
246	156	46	÷ 2 = 23	13	16	52	104	199	16	7
247	133	19	÷ 2 = 9	8	6	23	110	204	17	0
248	103	14	÷ 2 = 7	6	5	18	85	210	17	6
249	114	21	÷ 2 = 10	10	12	32	82	205	17	1
250	125	14	÷ 2 = 7	9	12	28	97	206	17	2
251	157	22	÷ 2 = 11	9	11	31	126	204	17	0
252	82	14	÷ 2 = 7	7	9	23	59	211	17	7
253	174	21	÷ 2 = 10	15	15	40	134	204	17	0

11. M. A. with Arith. Mos.	12. M. A. with Arith. Yr.	12. M. A. with Arith. Mos.	13. M. A. no Arith. Mos.	14. M. A. no Arith. Yr.	14. M. A. no Arith. Mos.	15. I. Q. with Arith.	16. I. Q. no Arith.	17. Difference in I. Q.
224	18	8	222	18	6	101	100	-1
213	17	9	218	18	2	103	105	2
223	18	7	224	18	8	107	108	1
209	17	5	209	17	5	98	98	0
184	15	4	180	15	0	90	88	-2
200	16	8	203	16	11	94	96	2
215	17	11	218	18	2	100	101	1
226	18	10	228	19	0	109	110	1
220	18	4	220	18	4	99	99	0
198	16	6	200	16	8	93	94	1
205	17	1	205	17	1	97	97	0
216	18	0	216	18	0	106	106	0
182	15	2	180	15	0	83	82	-1
169	14	1	169	14	1	82	82	0
217	18	1	216	18	0	115	114	-1
208	17	4	206	17	2	114	113	-1
208	17	4	206	17	2	114	113	-1
197	16	5	194	16	2	91	90	-1
189	15	9	190	15	10	93	94	1
231	19	3	232	19	4	116	116	0
226	18	10	218	18	2	114	110	-4
214	17	10	221	18	5	105	108	3
198	16	6	204	17	0	94	97	3
204	17	0	201	16	9	100	98	-2
209	17	5	212	17	8	101	103	2
226	18	10	233	19	5	111	114	3
183	15	3	181	15	1	87	86	-1
236	19	8	239	19	4	116	117	1

TABLE II C (see Text)

Revised Alpha Examination Form 7

MENTAL AGE EQUIVALENTS FOR SCORES INCLUDING AND EXCLUDING ARITHMETIC

Score with Arith.	Arithmetic per cent	Score without Arith.	Mental Ages in months
47	11.52	35.48	156
48	11.76	36.24	156
49	12.01	36.99	157
50	12.25	37.75	157
51	12.50	38.50	158
52	12.74	39.26	158
53	12.99	40.01	159
54	13.23	40.77	160
55	13.48	41.52	160
56	13.72	42.28	161
57	13.96	43.04	162
58	14.21	43.79	163
59	14.45	44.55	164
60	14.70	45.30	165
61	14.94	46.06	166
62	15.19	46.81	167
63	15.43	47.57	168
64	15.68	48.32	169
65	15.92	49.08	170
66	16.17	49.83	170
67	16.41	50.59	171
68	16.66	51.34	172
69	16.90	52.10	172
70	17.15	52.85	173
71	17.39	53.61	174
72	17.64	54.36	175
73	17.88	55.12	176
74	18.13	55.87	177
75	18.37	56.63	178
76	18.62	57.38	178
77	18.86	58.14	179
78	19.11	58.89	180
79	19.35	59.65	181
80	19.60	60.40	182
81	19.84	61.16	182
82	20.01	61.99	183
83	20.33	62.67	184
84	20.58	63.42	184
85	20.82	64.18	185
86	21.07	64.93	186

Table II C

Score with Arith.	Arithmetic per cent	Score without Arith.	Mental Ages in months
87	21.31	65.69	187
88	21.56	66.44	188
89	21.80	67.20	189
90	22.05	67.95	190
91	22.29	68.71	190
92	22.54	69.46	191
93	22.78	70.22	192
94	23.03	70.97	192
95	23.27	71.73	193
96	23.52	72.48	194
97	23.76	73.24	194
98	24.01	73.99	195
99	24.25	74.75	195
100	24.50	75.50	196
101	24.74	76.26	196
102	24.99	77.01	197
103	25.25	77.75	198
104	25.48	78.52	198
105	25.72	79.28	199
106	25.97	80.03	200
107	26.21	80.79	200
108	26.46	81.54	200
109	26.70	82.30	201
110	26.95	83.05	202
111	27.19	83.81	202
112	27.44	84.56	203
113	27.68	85.32	204
114	27.93	86.07	204
115	28.17	86.83	205
116	28.42	87.58	205
117	28.66	88.34	206
118	28.91	89.09	206
119	29.15	89.85	206
120	29.40	90.60	207
121	29.64	91.36	207
122	29.89	92.11	208
123	30.13	92.87	208
124	30.38	93.62	209
125	30.62	94.38	209
126	30.87	95.13	210
127	31.31	95.69	210
128	31.36	96.64	211
129	31.60	97.40	212
130	31.85	98.15	212
131	32.10	98.90	213

ARMY ALPHA SCORE CHART

Table II C

Score with Arith.	Arithmetic per cent	Score without Arith.	Mental Ages in months
132	32.24	99.66	214
133	32.58	100.42	214
134	32.83	101.17	215
135	33.07	101.93	216
136	33.32	102.68	216
137	33.56	103.44	217
138	33.81	104.19	217
139	34.05	104.95	218
140	34.30	105.70	218
141	34.54	106.46	218
142	34.79	107.21	219
143	35.03	107.97	219
144	35.28	108.72	220
145	35.52	109.48	220
146	35.77	110.23	221
147	36.01	110.99	221
148	36.26	111.74	222
149	36.50	112.50	222
150	36.75	113.25	223
151	37.00	114.00	223
152	37.24	114.76	224
153	37.48	115.52	224
154	37.73	116.27	225
155	37.98	117.02	225
156	38.22	117.78	226
157	38.47	118.53	226
158	38.71	119.29	227
159	38.95	120.05	227
160	39.20	120.80	228
161	39.45	121.55	228
162	39.69	122.31	229
163	39.94	123.06	230
164	40.18	123.82	230
165	40.44	124.56	231
166	40.67	125.33	232
167	40.92	126.08	232
168	41.16	126.84	233
169	41.41	127.59	233
170	41.65	128.35	234
171	41.90	129.10	234

ARMY ALPHA SCORE CHART

Score with Arith.	Arithmetic per cent	Score without Arith.	Mental Ages in months
172	42.14	129.86	235
173	42.39	130.61	236
174	42.63	131.37	236
175	42.88	132.12	237
176	43.12	132.88	238
177	43.37	133.63	238
178	43.61	134.39	239
179	43.86	135.14	240
180	44.10	135.90	240
181	44.35	136.65	241
182	44.59	137.41	241
183	44.84	138.16	242
184	45.08	138.92	242
185	45.33	139.67	243
186	45.57	140.43	243
187	45.82	141.18	244
188	46.06	141.94	244
189	46.31	142.69	245
190	46.55	143.45	246
191	46.80	144.20	246
192	47.04	144.96	247
193	47.29	145.71	247
194	47.53	146.47	248
195	47.78	147.22	248
196	48.02	147.98	249
197	48.27	148.73	249
198	48.51	149.49	250
199	48.76	150.24	250
200	49.00	151.00	251

(from page 30)

In the Kuhlmann-Anderson Intelligence Test, the method of deriving the mental age is different. Each separate section of the test is given a separate mental age depending upon the score earned in that section. (See Table ID, pages 42-47). The median of the mental ages of the various sections is the mental age that becomes a mental age of the child, and it in turn is used as a basis in determining the intelligence quotient.

The section of the Kuhlmann-Anderson tests containing the arithmetic is Section #27. To find the new median without arithmetic, the mental age received on Section #27 was omitted and the new median calculated. (Table ID, pages 42-47, column 4a and b).

If a score for a student on any test was encountered which was lower or higher than the calculated tables of interpretation for mental age, tables were extended by the following procedure. The scores with the corresponding mental ages were extended in table form by intervals of ten and the same range of months on mental age were continued for the new parts of the tables as for the published sections. Such extensions were made in Tables IIIA, page 49; IIIB, page 50; IIIC, page 51. The number of cases was very few.

Having secured the new intelligence quotient without arithmetic, Table IA, pages 7-12 column 12; Table IB, pages 19-25 column 12; Table IC, pages 31-36 column 16; Table ID, pages 42-47 column 6 and placing the data along side similar data in Table IA, pages 7-12 column 11; Table IB, pages 19-25 column 11; Table IC, pages 31-36 column 15; Table ID, pages 42-47 column 5, it became

(Continued on page 48)

Mental Age Equivalents of Test Scores

1 Candi-date	No. 23 Test Scrs	M. Yr.	A. Mos.	No. 24 Test Scrs	M. Yr.	A. Mos.	No. 25 Test Scrs	M. Yr.	A. Mos.	No. 26 Test Scrs	M. Yr.	A. Mos.	No. 27 Test Scrs	M. Yr.	A. Mos.
1	10	12	11	10	10	3	6	11	6	14	15	11	13	11	7
2	9	12	3	9	9	10	7	12	5	7	10	4	22	14	0
3	6	10	3	6	11	6	3	9	2	7	10	4	14	11	10
4	9	12	3	9	14	10	9	15	3	13	14	0	20	13	4
5	5	9	11	5	12	1	9	15	3	10	11	11	16	12	3
6	9	12	3	9	12	10	7	12	5	10	11	11	6	9	8
7	9	12	3	9	11	6	5	10	6	9	11	4	14	11	10
8	8	11	6	8	12	10	7	12	5	9	11	4	18	12	10
9	9	12	3	9	14	10	6	11	6	11	12	5	25	14	11
10	5	9	11	5	0		6	11	6	3	8	11	10	10	9
11	7	10	10	7	11	6	5	10	6	11	12	5	16	12	3
12	7	10	10	7	12	1	7	12	5	10	11	11	3	8	10
13	10	12	11	10	13	9	5	10	6	11	12	5	16	12	3
14	10	12	11	10	19	7	7	12	5	14	15	1	20	13	4
15	10	12	11	10	11	6	7	12	5	11	12	5	5	9	5
16	9	12	3	9	12	10	8	13	7	11	12	5	2	8	5
17	7	10	10	7	9	10	5	10	6	9	11	4	2	8	5
18	10	12	11	10	13	9	7	12	5	12	13	2	6	9	8
19	10	12	11	10	13	9	5	10	6	4	9	3	6	9	8
20	9	12	3	9	12	1	5	10	6	13	14	0	16	12	3
21	10	12	11	10	12	10	7	12	5	7	10	4	9	10	6
22	8	11	6	8	10	3	5	10	6	8	10	10	6	9	8
23	4	9	3	4	16	1	9	15	3	10	11	11	11	10	11
24	7	10	10	7	12	1	5	10	6	10	11	11	8	10	3
25	8	11	6	8	11	6	6	11	6	12	13	2	9	10	6
26	10	12	11	10	12	1	7	12	5	13	14	0	6	9	8
27	7	10	10	7	10	3	5	10	6	12	13	2	12	11	4
28	9	12	3	9	10	10	5	10	6	5	9	7	11	10	11
29	9	12	3	9	11	6	6	11	6	13	14	0	15	12	0
30	4	9	3	4	12	1	6	11	6	10	11	11	8	10	3
31	10	12	11	10	12	1	6	11	6	15	16	1	16	12	3
32	7	10	10	7	13	9	7	12	5	11	12	5	17	12	6
33	10	12	11	10	11	6	6	11	6	12	13	2	22	14	0
34	9	12	3	9	17	4	8	13	7	13	14	0	7	9	11
35	8	11	6	8	12	10	6	11	6	14	15	1	18	12	10
36	6	10	3	6	11	6	5	10	6	11	12	5	18	12	10
37	9	12	3	9	13	9	9	15	3	12	13	2	16	12	3
38	10	12	11	10	12	10	6	11	6	12	13	2	7	9	2
39	5	9	11	5	11	6	5	10	6	12	13	2	5	9	5
40	10	12	11	10	13	9	7	12	5	8	10	10	5	9	5
41	10	12	11	10	12	10	5	10	6	12	13	2	18	12	10
42	9	12	3	9	12	10	7	12	5	12	13	2	8	10	3
43	10	12	11	10	10	3	3	9	2	10	11	11	16	12	3
44	7	10	10	7	10	10	9	15	3	11	12	5	19	13	0
45	10	12	11	10	11	6	7	12	5	10	11	11	7	9	11

Table I D (See Text)

Kuhlman-Anderson Intelligence Tests

AN INTENSIFIED SUMMARY OF RESEARCH INFORMATION

No. 28			No. 29			No. 30			No. 31			No. 31		
Test Scrs	M. Yr.	A. Mos.	Test Scrs	M. Yr.	A. Mos.	Test Scrs	M. Yr.	A. Mos.	Test Scrs	M. Yr.	A. Mos.	Test Scrs	M. Yr.	A. Mos.
5	10	3	5	11	4	8	13	4	10	14	11	9	17	9
9	12	5	8	13	2	7	12	10	8	13	4	1	10	5
6	10	8	8	13	2	3	10	10	10	14	11	3	11	9
12	14	8	5	11	4	10	14	8	7	12	10	3	11	9
8	11	11	9	13	10	6	12	4	10	14	11	4	12	6
5	10	3	6	11	11	9	14	0	4	11	5	1	10	5
9	12	5	9	13	10	7	12	10	8	13	4	5	13	4
8	11	11	8	13	2	8	13	4	9	14	1	5	13	4
10	13	2	4	10	10	6	12	4	11	15	8	6	14	3
4	9	9	5	11	4	0	0	0	8	13	4	4	12	6
8	11	11	7	12	6	10	14	8	9	14	1	2	11	2
5	10	3	4	10	10	3	10	10	12	16	7	1	10	5
9	12	5	8	13	2	11	15	4	9	14	1	7	15	3
13	15	8	9	13	10	9	14	0	7	12	10	12	23	0
7	11	4	9	13	10	8	13	4	6	12	4	1	10	5
9	12	5	9	13	10	8	13	4	7	12	10	7	15	3
7	11	4	7	12	6	6	12	4	8	13	4	2	11	2
8	11	11	8	13	2	10	14	8	4	11	5	4	12	6
8	11	11	5	11	4	1	10	0	3	10	11	1	10	5
8	11	11	2	10	0	3	10	10	0	0	0	3	11	9
9	12	5	6	11	11	8	13	4	9	14	1	3	11	9
9	12	5	4	10	10	8	13	4	5	11	11	1	10	5
10	13	2	4	10	10	7	12	10	4	11	5	5	13	4
7	11	4	5	11	4	8	13	4	6	12	4	4	12	6
6	10	8	4	10	10	7	12	10	9	14	1	4	12	6
6	10	8	4	10	10	6	12	4	13	17	6	5	13	4
9	12	5	5	11	4	7	12	10	7	12	10	7	15	3
10	13	2	8	13	2	8	13	4	6	12	4	3	11	9
8	11	11	7	12	6	6	12	4	9	14	1	4	12	6
5	10	3	3	10	4	0	0	0	6	12	4	7	15	3
11	13	10	9	13	10	8	13	4	10	14	11	4	12	6
7	11	4	5	11	4	10	14	8	8	13	4	2	11	2
9	12	5	8	13	2	0	0	0	12	16	7	4	12	8
8	11	11	8	13	2	12	16	5	7	12	10	6	14	3
4	9	9	5	11	4	6	12	4	10	14	11	4	12	6
7	11	4	4	10	10	7	12	10	5	11	11	1	10	5
10	13	2	4	10	10	12	16	5	11	15	8	4	12	6
8	11	11	7	12	6	7	12	10	10	14	11	3	11	9
1	8	5	2	10	0	5	11	10	4	11	5	4	12	6
5	10	3	9	13	10	9	14	0	9	14	1	2	11	2
6	10	8	6	11	11	8	13	4	10	14	11	3	11	9
10	13	2	5	11	4	4	11	4	9	14	1	5	13	4
8	11	11	10	14	8	8	13	4	6	12	4	2	11	2
6	10	8	7	12	6	11	15	4	7	12	10	6	14	3
9	12	5	2	10	0	10	14	8	7	12	10	3	11	9

(2) b C. A.			a (3) b M. A. with Arithmetic			a (4) b M. A. no Arithmetic			(5) I. Q. with	(6) I. Q. no	(7) Diff. in
Mos.	Yr.	Mos.	Mos.	Yr.	Mos.	Mos.	Yr.	Mos.	Arth.	Arth.	I. Q.
140	11	8	147	12	3	155	12	11	105	111	6
133	11	1	149	12	5	149	12	5	112	112	0
143	11	11	134	11	2	130	10	10	94	91	-3
135	11	3	164	13	8	168	14	0	121	124	3
127	10	7	148	12	4	147	12	3	117	116	1
143	11	11	143	11	11	143	11	11	100	100	0
134	11	2	148	12	4	149	12	5	110	111	1
154	12	10	154	12	10	154	12	10	100	100	0
147	12	3	153	12	9	149	12	5	104	101	-3
147	12	3	124	10	4	119	9	11	84	81	-3
126	10	6	145	12	1	143	11	11	115	113	-2
136	11	4	130	10	10	130	10	10	96	96	0
147	12	3	157	13	1	158	13	2	107	107	0
140	11	8	167	13	11	168	14	0	119	120	1
129	10	9	149	12	5	149	12	5	115	115	0
128	10	8	154	12	10	154	12	10	120	120	0
148	12	4	135	11	3	136	11	4	91	92	1
146	12	2	153	12	9	155	12	11	105	106	1
136	11	4	126	10	6	126	10	6	93	93	0
133	11	1	142	11	10	141	11	9	107	106	-1
136	11	4	149	12	5	149	12	5	109	109	0
173	14	5	130	10	10	130	10	10	75	75	0
132	11	0	149	12	5	154	12	10	113	117	4
134	11	2	140	11	8	143	11	11	104	107	3
140	11	8	138	11	6	138	11	6	99	99	0
141	11	9	149	12	5	149	12	5	106	106	0
149	12	5	143	11	11	149	12	5	96	100	4
137	11	5	144	12	0	147	12	3	105	107	2
137	11	5	148	12	4	148	12	4	108	108	0
141	11	9	131	10	11	138	11	6	93	98	5
141	11	9	158	13	2	160	13	4	112	113	1
136	11	4	149	12	5	149	12	5	109	109	0
138	11	6	153	12	9	150	12	6	111	109	-2
145	12	1	161	13	5	163	13	7	111	112	1
132	11	0	149	12	5	148	12	4	113	112	-1
132	11	0	137	11	5	136	11	4	104	103	-1
135	11	3	158	13	2	158	13	2	117	117	0
138	11	6	152	12	8	154	12	10	110	111	1
154	12	10	132	11	0	137	11	5	86	89	3
136	11	4	152	12	8	155	12	11	111	114	3
139	11	7	154	12	10	154	12	10	111	111	0
130	10	10	152	12	8	154	12	10	117	118	1
143	11	11	145	12	1	143	11	11	101	100	-1
140	11	8	152	12	8	150	12	6	108	107	-1
152	12	8	146	12	2	149	12	5	96	98	2

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Mental Age Equivalents of Test Scores

Candidate	No. Test Scrs	23 M. Yr.	23 A. Mos.	No. Test Scrs	24 M. Yr.	24 A. Mos.	No. Test Scrs	25 M. Yr.	25 A. Mos.	No. Test Scrs	26 M. Yr.	26 A. Mos.	No. Test Scrs	27 M. Yr.	27 A. Mos.
46	9	12	3	7	10	10	5	10	6	9	11	4	9	10	6
47	10	12	11	11	13	9	5	10	6	3	8	11	15	12	0
48	10	12	11	11	13	9	10	17	1	14	15	1	7	9	11
49	7	10	10	8	11	6	4	9	10	10	11	11	7	9	11
50	10	12	11	9	12	1	5	10	6	12	13	2	9	10	6
51	10	12	11	12	14	10	7	12	5	12	13	2	4	9	1
52	7	10	10	10	12	10	6	11	6	11	12	5	14	11	10
53	8	11	6	9	12	1	5	10	6	12	13	2	18	12	10
54	1	8	0	9	12	1	5	10	6	7	10	4	10	10	9
55	8	11	6	7	10	10	3	9	2	6	10	0	9	10	6
56	8	11	6	7	10	10	4	9	10	10	11	11	16	12	3
57	10	12	11	12	14	10	8	13	7	14	15	1	23	14	3
58	6	10	3	1	8	1	4	9	10	5	9	7	19	13	0
59	10	12	11	13	16	1	8	13	7	13	14	0	14	11	10
60	8	11	6	7	10	10	7	12	5	9	11	4	19	13	0
61	9	12	3	8	11	6	2	8	8	9	11	4	18	12	10
62	9	12	3	9	12	1	6	11	6	14	15	1	13	11	7
63	10	12	11	10	12	10	6	11	6	13	14	0	9	10	6
64	10	12	11	10	12	10	7	12	5	11	12	5	14	11	10
65	7	10	10	9	12	1	7	12	5	12	13	2	12	11	4
66	9	12	3	10	12	10	7	12	5	14	15	1	16	12	7
67	10	12	11	10	12	10	3	9	2	15	16	1	17	12	8
68	5	9	11	12	14	10	6	11	6	7	10	4	24	14	7
69	7	10	10	8	11	6	7	12	5	11	12	5	11	10	11
70	8	11	6	10	12	10	7	12	5	14	15	1	10	10	9
71	10	12	11	2	8	5	6	11	6	10	11	11	10	10	9
72	7	10	10	11	13	9	1	8	1	12	13	2	16	12	3
73	10	12	11	6	10	3	6	11	6	9	11	4	12	11	4
74	9	12	3	9	12	1	6	11	6	15	16	1	6	9	8
75	10	12	11	11	13	9	7	12	5	1	8	2	8	12	10
76	10	12	4	10	12	10	7	12	5	10	11	11	0	0	0
77	8	11	6	9	12	1	5	10	6	12	13	2	7	9	11
78	9	12	3	7	10	10	6	11	6	8	10	10	24	14	7
79	9	12	3	10	12	10	7	12	5	11	12	5	4	9	1
80	10	12	11	9	12	1	6	11	6	12	13	2	18	12	10
81	7	10	10	9	12	1	6	11	6	13	14	0	21	13	9
82	10	12	11	10	12	10	9	15	3	12	13	2	11	10	11
83	9	12	3	10	12	10	8	13	7	14	15	1	14	11	10
84	9	12	3	8	11	6	9	15	3	13	14	0	24	14	7
85	10	12	11	6	10	3	7	12	5	13	14	0	5	9	5
86	8	11	6	10	12	10	6	11	6	11	12	5	8	10	3
87	9	12	3	10	12	10	6	11	6	12	13	2	0	0	0
88	9	12	3	10	12	10	7	12	5	15	16	1	19	13	0
89	10	12	11	9	12	1	7	12	5	10	11	11	15	12	0
90	5	9	11	7	12	1	4	9	10	5	9	7	0	0	0

Kuhlman-Anderson Intelligence Tests

Table I D

No. 28 Test Scrs	M. Yr.	A. Mos.	No. 29 Test Scrs	M. Yr.	A. Mos.	No. 30 Test Scrs	M. Yr.	A. Mos.	No. 31 Test Scrs	M. Yr.	A. Mos.	No. 31 Test Scrs	M. Yr.	A. Mos.
6	10	8	1	9	7	8	13	4	7	12	10	4	12	6
7	11	4	1	9	7	9	14	0	11	15	8	10	19	6
7	11	4	7	12	6	12	16	5	7	12	10	10	19	6
5	10	3	4	10	10	6	12	4	6	12	4	1	10	5
12	14	8	6	11	11	9	14	0	15	20	6	1	10	5
8	11	11	6	11	11	10	14	8	9	14	1	3	11	9
9	12	5	8	13	2	10	14	8	8	13	4	6	14	3
8	11	11	3	10	4	8	13	4	11	15	8	2	11	2
7	11	4	4	10	10	7	12	10	5	11	11	2	11	2
8	11	11	5	11	4	8	13	4	6	12	4	3	11	9
10	13	2	5	11	4	9	14	0	10	14	11	6	14	3
10	13	2	5	11	4	9	14	0	11	15	8	3	11	9
3	9	4	6	11	11	6	12	4	7	12	10	1	10	5
7	11	4	6	11	11	10	14	8	10	14	11	10	19	6
9	12	5	5	11	4	8	13	4	12	16	7	4	12	6
7	11	4	6	11	11	8	13	4	10	14	11	2	11	2
8	11	11	8	13	2	8	13	4	8	13	4	5	13	4
9	12	5	5	11	4	10	14	8	12	16	7	5	13	4
4	9	9	3	10	4	11	15	4	4	11	5	1	10	5
7	11	4	12	16	7	7	12	10	11	15	8	3	11	9
9	12	5	5	11	4	9	14	0	12	16	7	5	13	4
6	10	8	4	10	10	7	12	10	10	14	11	4	12	6
5	10	3	4	10	10	3	10	10	2	10	6	4	12	6
6	10	8	6	11	11	9	14	0	11	15	8	4	12	6
13	15	8	8	13	2	11	15	4	9	14	1	7	15	3
4	9	9	5	11	4	8	13	4	11	15	8	3	11	9
5	10	3	4	10	10	1	10	0	7	12	10	5	13	4
6	10	8	4	10	10	8	13	4	4	11	5	1	10	5
8	11	11	7	12	6	9	14	0	6	12	4	5	13	4
8	11	11	10	14	8	9	14	0	6	12	4	5	13	4
7	11	4	9	13	10	10	14	8	11	15	8	8	16	5
10	13	2	4	10	10	6	12	4	9	14	1	4	12	6
10	13	2	12	16	7	5	11	10	9	14	1	2	11	2
7	11	4	5	11	4	9	14	0	5	11	11	3	11	9
7	11	4	8	13	2	7	12	10	8	13	4	5	13	4
6	10	8	5	11	4	4	11	4	6	12	4	5	13	4
9	12	5	12	16	7	7	12	10	10	14	11	5	13	4
11	13	10	7	12	16	7	12	10	18	13	4	3	11	9
11	13	1	4	10	10	6	12	4	10	14	11	7	15	3
5	10	3	7	12	6	9	14	0	13	17	6	1	10	5
3	9	4	6	11	11	5	11	10	7	12	10	0	0	0
10	13	2	3	10	4	7	12	10	0	0	0	2	11	2
12	14	8	8	13	2	10	14	8	9	14	1	7	15	3
11	13	10	6	11	11	6	12	4	8	13	4	2	11	2
6	10	8	11	15	6	6	12	4	10	14	11	5	13	4

a (2) C. A. Mos.	Yr.	b Mos.	a (3) M. A. with Arithmetic Mos.	Yr.	b Mos.	a (4) M. A. no Arithmetic Mos.	Yr.	b Mos.	(5) I. Q. with Arth.	(6) I.Q. no Arth.	(7) Diff. in I. Q.
134	11	2	133	11	1	136	11	4	99	101	2
129	10	9	150	12	6	155	12	11	116	120	4
133	11	1	160	13	4	165	13	9	120	124	4
136	11	4	130	10	10	130	10	10	96	96	0
129	10	9	150	12	6	155	12	11	116	120	4
140	11	8	152	12	8	155	12	11	108	111	3
131	10	11	152	12	8	154	12	10	116	118	2
138	11	6	144	12	0	143	11	11	104	104	0
128	10	8	132	11	0	134	11	2	103	105	2
145	12	1	137	11	5	138	11	6	95	95	0
159	13	3	145	12	1	143	11	11	91	90	-1
150	12	6	166	13	10	163	13	7	111	109	-2
133	11	1	124	10	4	123	10	3	93	92	-1
128	10	8	166	13	10	168	14	0	130	131	1
135	11	3	149	12	5	149	12	5	110	110	0
162	13	6	141	11	9	138	11	6	87	85	-2
137	11	5	152	12	8	158	13	2	112	115	3
131	10	11	155	12	11	155	12	11	118	118	0
138	11	6	145	12	1	149	12	5	115	108	-7
136	11	4	147	12	3	149	12	5	108	110	2
137	11	5	152	12	8	154	12	10	111	112	1
137	11	5	152	12	8	154	12	10	111	112	1
139	11	7	130	10	10	130	10	10	94	94	0
127	10	7	146	12	2	149	12	5	115	117	2
130	10	10	164	13	8	169	14	1	126	130	4
135	11	3	140	11	8	143	11	11	104	106	2
171	14	3	138	11	6	130	10	10	81	76	-5
129	10	9	136	11	4	136	11	4	105	105	0
142	11	10	148	12	4	148	12	4	104	104	0
134	11	2	155	12	11	155	12	11	116	116	0
138	11	6	155	12	11	155	12	11	112	112	0
132	11	0	147	12	3	148	12	4	111	112	1
153	12	9	145	12	1	142	11	10	95	93	-2
131	10	11	145	12	1	147	12	3	111	112	1
146	12	2	155	12	11	155	12	11	106	106	0
134	11	2	142	11	10	138	11	6	106	103	-3
128	10	8	156	13	0	158	13	2	122	123	1
130	10	10	154	12	10	154	12	10	118	118	0
140	11	8	163	13	6	157	13	1	116	112	-4
149	12	5	150	12	6	150	12	6	101	101	0
148	12	4	140	11	8	142	11	10	95	96	1
152	12	8	143	11	11	147	12	3	94	97	3
135	11	3	164	13	8	169	14	1	121	125	4
148	12	4	146	12	3	148	12	4	99	100	1
132	11	0	137	11	5	145	12	1	103	110	7

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Mental Age Equivalents of Test Scores

Candidate	No. 23 Test Scrs	M. Yr.	A. Mos.	No. 24 Test Scrs	M. Yr.	A. Mos.	No. 25 Test Scrs	M. Yr.	A. Mos.	No. 26 Test Scrs	M. Yr.	A. Mos.	No. 27 Test Scrs	M. Yr.	A. Mos.
91.	9	12	3	11	13	9	9	15	3	14	15	1	17	12	6
92.	10	12	11	10	12	10	4	9	10	11	12	5	6	9	8
93.	9	12	3	8	11	6	9	15	3	15	16	1	22	14	0
94.	10	12	11	10	12	10	8	13	7	13	14	0	11	10	11
95.	8	11	6	6	10	3	6	11	6	10	11	11	13	14	0
96.	9	12	3	9	12	1	5	10	6	12	13	2	7	9	11
97.	10	12	11	11	13	9	7	12	5	14	15	1	15	12	6
98.	9	12	3	9	12	1	9	15	3	11	12	5	7	9	11
99.	8	11	6	13	16	1	7	12	5	13	14	0	7	9	11
100.	10	12	11	11	13	9	7	12	5	15	16	1	14	11	10
101.	10	12	11	10	12	10	5	10	6	12	13	2	16	12	3
102.	8	11	6	10	12	10	7	12	5	11	12	5	2	8	5
103.	10	12	11	7	10	10	4	9	10	12	13	2	3	8	10
104.	10	12	11	13	16	1	6	11	6	14	15	1	20	13	4
105.	9	12	3	7	10	10	3	9	2	12	13	2	8	10	3
106.	9	12	3	7	10	10	4	9	10	11	12	5			
107.	10	12	11	6	10	3	8	13	7	13	14	0	9	10	6
108.	9	12	3	13	16	1	10	17	1	15	16	1	10	10	9
109.	10	12	11	8	11	6	6	11	6	13	14	0	10	10	9
110.	10	12	11	12	14	10	6	11	6	14	15	1	6	9	8
111.	8	11	6	7	10	10	6	11	6	10	11	11	3	8	10
112.	8	11	6	10	12	10	3	9	2	12	13	2	10	10	9
113.	8	11	6	7	10	10	7	12	5	14	15	1	16	12	3
114.	9	12	3	10	12	10	5	10	6	11	12	5	13	11	7
115.	8	11	6	8	11	6	5	10	6	8	10	10	14	11	10
116.	10	12	11	11	13	9	9	15	3	14	15	1	11	10	11
117.	7	10	10	8	11	6	5	10	6	12	13	2	14	11	10
118.	5	9	11	0	0	0	2	8	8	11	12	5	16	12	3
119.	8	11	6	3	8	10	7	12	5	11	12	5	7	9	11
120.	6	10	3	5	9	10	5	10	6	11	12	5	17	12	6
121.	10	12	11	11	13	9	6	11	6	12	13	2	9	10	6
122.	8	11	6	8	11	6	8	13	7	13	14	0	15	12	0
123.	8	11	6	12	14	10	4	9	10	10	11	11	9	10	6
124.	9	12	3	10	12	10	4	9	10	11	12	5	18	12	10
125.	5	9	11	8	11	6	1	8	1	8	10	10	9	10	6
126.	10	12	11	8	11	6	6	11	6	13	14	0	17	12	6
127.	6	10	3	9	12	1	1	8	1	10	11	11	11	10	11
128.	10	12	11	12	14	10	7	12	5	15	16	1	23	14	3
129.	7	10	10	8	11	6	3	9	2	12	13	2	11	10	11
130.	7	10	10	0	0	0	7	12	5	13	14	0	6	9	8
131.	6	10	3	3	8	10	6	11	6	10	11	11	6	9	8
132.	10	12	11	9	12	1	6	11	6	15	16	1	11	10	11
133.	5	9	11	5	9	10	4	9	10	7	10	4	16	12	3
134.	7	10	10	9	12	1	6	11	6	11	12	5	6	9	8
135.	0	0	0	7	10	10	4	9	10	8	10	10	1	8	2

Kuhlman-Anderson Intelligence Tests

Table I D

No. 28 Test Scrs	M. Yr.	A. Mos.	No. 29 Test Scrs	M. Yr.	A. Mos.	No. 30 Test Scrs	M. Yr.	A. Mos.	No. 31 Test Scrs	M. Yr.	A. Mos.	No. 32 Test Scrs	M. Yr.	A. Mos.
9	12	5	5	11	4	9	14	0	13	17	6	5	13	4
.1	13	10	2	10	0	6	12	4	7	12	10	0	0	0
9	12	5	5	11	4	9	14	0	7	12	10	0	0	0
0	13	2	2	10	0	5	11	10	10	14	11	6	14	3
5	10	3	1	9	7	8	13	4	6	12	4	5	13	4
6	10	8	5	11	4	10	14	8	12	16	7	8	16	5
7	11	4	6	11	11	9	14	0	6	12	4	5	13	4
7	11	4	2	10	0	9	14	0	4	11	5	4	12	6
7	11	4	1	9	7	9	14	0	8	13	4	4	12	6
9	12	5	4	10	10	11	15	4	11	15	8	5	13	4
3	15	8	8	13	2	6	12	4	12	16	7	6	14	3
9	12	5	9	13	10	9	14	0	11	15	8	6	14	3
3	11	11	3	10	4	5	11	10	4	11	5	5	13	4
9	12	5	8	13	2	9	14	0	11	15	8	7	15	3
5	10	3	2	10	0	8	13	4	7	12	10	2	11	2
3	11	11	1	9	7	5	11	10	4	11	5	4	12	6
9	12	5	2	10	0	8	13	4	7	12	10	1	10	5
6	10	8	7	12	6	13	17	4	11	15	8	6	14	3
1	13	10	9	13	10	9	14	0	11	15	8	5	13	4
0	13	2	6	11	11	8	13	4	10	14	11	4	12	6
4	9	9	3	10	4	4	11	4	5	11	11	6	14	3
8	11	11	6	11	11	7	12	10	12	16	7	1	10	5
6	10	8	5	11	4	9	14	0	9	14	1	3	11	9
9	12	5	6	11	11	7	12	10	10	14	11	0	0	0
6	10	8	5	11	4	6	12	4	9	14	1	2	11	2
6	10	8	7	12	6	10	14	8	10	14	11	11	22	6
8	11	11	7	12	6	8	13	4	10	14	11	0	0	0
7	11	4	6	11	11	10	14	8	5	11	11	3	11	9
6	10	8	6	11	11	5	11	10	5	11	11	6	14	3
8	11	11	1	9	7	1	10	0	6	12	4	2	11	2
7	11	4	5	11	4	1	10	0	10	14	11	2	11	2
8	11	11	5	11	4	9	14	0	5	11	11	5	13	4
7	11	4	5	11	4	5	11	10	4	11	5	2	11	2
9	12	5	5	11	4	7	12	10	11	15	8	3	11	9
6	10	8	4	10	10	6	12	4	7	12	10	1	10	5
5	10	3	2	10	0	8	13	4	5	11	11	3	11	9
3	9	4	7	12	6	2	10	5	7	12	10	1	10	5
.1	13	10	12	16	7	9	14	0	8	13	4	6	14	3
3	9	4	4	10	10	11	15	4	6	12	4	2	11	2
5	10	3	1	9	7	5	11	10	7	12	10	4	12	6
6	10	8	7	12	6	6	12	4	12	16	7	4	12	6
8	11	11	4	10	10	10	14	8	6	12	4	7	15	3
8	11	11	3	10	4	0	0	0	2	10	6	5	13	4
6	10	8	8	13	2	8	13	4	12	16	7	4	12	6
6	10	8	5	11	4	9	14	0	5	11	11	3	11	9

C	a (2) b C.A.			a (3) b M.A. with Arithmetic			a (4) b M.A. no Arithmetic			(5) I.Q. with Arth.	(6) I.Q. no Arth.	(7) Diff. in I.Q.
	Mos.	Yr.	Mos.	Mos.	Yr.	Mos.	Mos.	Yr.	Mos.			
	130	10	10	163	13	7	165	13	9	125	127	2
	138	11	6	149	12	5	149	12	5	108	108	0
	138	11	6	152	12	8	149	12	5	110	108	-2
	130	10	10	157	13	1	158	13	2	121	121	0
	130	10	10	140	11	8	138	11	6	108	106	-2
	133	11	1	146	12	2	147	12	3	110	110	0
	129	10	9	152	12	8	155	12	11	118	120	2
	143	11	11	146	12	2	147	12	3	102	103	1
	146	12	2	150	12	6	150	12	6	103	103	0
1	129	10	9	158	13	2	160	13	4	122	124	2
1	131	10	11	157	13	1	158	13	2	120	121	1
1	148	12	4	152	12	8	154	12	10	103	104	1
1	134	11	2	140	11	8	142	11	10	104	106	2
1	133	11	1	164	13	8	168	14	0	123	126	3
1	130	10	10	132	11	0	134	11	2	101	103	2
1	133	11	1	140	11	8	142	11	10	105	107	2
1	143	11	11	152	12	8	154	12	10	106	108	2
1	136	11	4	180	15	0	188	15	8	132	138	6
1	146	12	2	163	13	7	166	13	10	111	114	3
1	139	11	7	157	13	1	158	13	2	113	114	1
1	136	11	4	137	11	5	138	11	6	101	102	1
1	134	11	2	143	11	11	143	11	11	107	107	0
1	127	10	7	144	12	0	141	11	9	113	111	-2
1	128	10	8	148	12	4	149	12	5	115	116	1
1	135	11	3	137	11	5	136	11	4	101	101	0
1	127	10	7	171	14	3	176	14	8	135	139	4
1	132	11	0	143	11	11	143	11	11	108	108	0
1	165	13	9	142	11	10	141	11	9	86	85	-1
1	132	11	0	143	11	11	143	11	11	108	108	0
1	167	13	11	130	10	10	126	10	6	78	75	-3
1	133	11	1	137	11	5	138	11	6	103	104	1
1	144	12	0	144	12	0	143	11	11	100	99	-1
1	146	12	2	137	11	5	137	11	5	94	94	0
1	141	11	9	149	12	5	149	12	5	106	106	0
1	130	10	10	129	10	9	130	10	10	99	100	1
1	137	11	5	142	11	10	141	11	9	104	103	-1
1	158	13	2	128	10	8	125	10	5	81	79	-2
1	141	11	9	170	14	2	168	14	0	120	119	-1
1	129	10	9	133	11	1	134	11	2	103	104	1
1	140	11	8	136	11	4	142	11	10	97	101	4
1	130	10	10	141	11	9	143	11	11	108	110	2
1	135	11	3	147	12	3	148	12	4	109	110	1
1	174	14	6	124	10	4	124	10	4	71	71	0
1	132	11	0	147	12	3	149	12	5	111	113	2
1	123	10	3	130	10	10	130	10	10	106	106	0

Mental Age Equivalents of Test Scores

No. 23 Test Score	Yr.	Mos.	No. 24 Test Score	Yr.	Mos.	No. 25 Test Score	Yr.	Mos.	No. 26 Test Score	Yr.	Mos.
0	10	3	10	12	10	7	12	5	7	10	4
5	9	11	6	10	3	5	9	2	10	11	11
10	12	11	10	12	10	4	9	10	13	14	0
6	10	3	1	8	1	5	10	6	6	10	10
8	11	6	4	9	3	8	13	7	15	14	0
8	11	6	10	12	10	6	11	6	14	15	1
9	12	3	0	0	0	7	12	5	15	16	1
6	10	3	6	10	3	5	10	6	13	13	2
10	12	11	9	12	1	9	15	5	16	15	3
10	12	11	10	12	10	7	12	5	11	12	5
9	12	3	10	12	10	6	13	7	12	13	2
10	12	11	11	13	9	9	15	5	14	15	1
7	10	10	6	10	3	3	9	2	7	10	4
10	12	11	7	10	10	5	10	6	9	11	4
9	12	3	14	10	7	7	12	5	13	14	0
7	10	10	8	11	6	6	11	6	12	13	3
10	12	11	11	13	9	5	10	6	15	16	1
10	12	11	11	13	9	9	15	5	14	15	1
10	12	11	14	10	7	9	15	5	15	16	1
9	12	3	12	10	7	5	12	5	13	14	0
4	9	3	10	10	3	5	10	6	10	11	11
10	12	11	10	12	10	4	9	10	12	13	3
4	9	3	7	10	10	5	10	6	9	9	7
9	12	3	11	13	9	7	12	5	15	16	1
1	8	0	8	11	6	6	11	6	11	12	5
6	10	3	4	9	3	4	9	10	9	11	4
10	12	11	13	16	1	4	9	10	14	15	1
10	12	11	11	13	9	3	9	2	14	15	1
4	9	3	8	11	6	5	10	6	8	10	10
6	11	6	5	9	10	6	11	6	11	12	5
9	12	3	1	8	1	8	13	7	11	12	5
10	12	11	10	12	10	4	9	10	15	16	1
10	12	11	11	13	9	8	13	7	15	16	1
9	12	3	5	9	10	6	11	6	14	15	1
10	12	11	7	10	10	7	12	5	9	11	4
9	12	3	11	13	9	6	11	6	15	16	1
10	12	11	10	12	10	7	12	5	15	14	0
7	10	10	7	10	10	7	12	5	11	12	5
7	10	10	9	12	1	5	10	6	11	12	5
10	12	11	10	12	10	7	12	5	13	14	0
3	8	11	4	9	3	4	9	10	5	9	7
7	10	10	10	12	10	4	9	10	13	14	0
7	10	10	5	10	3	5	10	6	8	10	10
7	10	10	9	12	1	7	12	5	14	15	1
7	10	10	11	13	9	5	10	6	9	11	4

Mental Age Equivalents of Test Scores

1 Candi-date	No. 23 Test Scrs	M. Yr.	A. Mos.	No. 24 Test Scrs	M. Yr.	A. Mos.	No. 25 Test Scrs	M. Yr.	A. Mos.	No. 26 Test Scrs	M. Yr.	A. Mos.	No. 27 Test Scrs	M. Yr	A. Mos.
136	6	10	3	10	12	10	7	12	5	7	10	4	9	10	6
137	5	9	11	6	10	3	3	9	2	10	11	11	8	10	3
138	10	12	11	10	12	10	4	9	10	13	14	0	10	10	9
139	6	10	3	1	8	1	5	10	6	8	10	10	10	10	9
140	8	11	6	4	9	3	8	13	7	13	14	0	13	11	7
141	8	11	6	10	12	10	6	11	6	14	15	1	9	10	6
142	9	12	3	0	0	0	7	12	5	15	16	1	7	9	11
143	6	10	3	6	10	3	5	10	6	12	13	2	20	13	4
144	10	12	11	9	12	1	9	15	3	7	10	4	11	10	11
145	10	12	11	10	12	10	7	12	5	11	12	5	14	11	10
146	9	12	3	10	12	10	8	13	7	12	13	2	20	13	4
147	10	12	11	11	13	9	9	15	3	14	15	1	20	13	4
148	7	10	10	6	10	3	3	9	2	7	10	4	5	9	5
149	10	12	11	7	10	10	5	10	6	9	11	4	13	11	7
150	9	12	3	12	14	10	7	12	5	13	14	0	4	9	1
151	7	10	10	8	11	6	6	11	6	11	12	5	7	9	11
152	10	12	11	11	13	9	5	10	6	15	16	1	11	10	11
153	10	12	11	11	13	9	9	15	3	14	15	1	11	10	11
154	10	12	11	12	14	10	9	15	3	15	16	1	18	12	10
155	8	11	6	7	10	10	2	8	8	12	13	2	5	9	5
156	5	9	11	6	10	3	5	10	6	10	11	11	3	8	10
157	10	12	11	10	12	10	4	9	10	12	13	2	17	12	6
158	4	9	3	7	10	10	5	10	6	5	9	7	7	9	11
159	9	12	3	11	13	9	7	12	5	15	16	1	7	9	11
160	1	8	0	8	11	6	7	12	5	10	11	11	3	8	10
161	6	10	3	4	9	3	4	9	10	9	11	4	10	10	9
162	10	12	11	13	16	1	4	9	10	14	15	1	14	11	10
163	10	12	11	11	13	9	3	9	2	14	15	1	10	10	9
164	4	9	3	8	11	6	5	10	6	8	10	10	6	9	8
165	8	11	6	5	9	10	6	11	6	11	12	5	11	10	11
166	9	12	3	1	8	1	8	13	7	11	12	5	14	11	10
167	10	12	11	10	12	10	4	9	10	15	16	1	2	8	5
168	10	12	11	11	13	9	8	13	7	15	16	1	15	12	0
169	9	12	3	5	9	10	6	11	6	14	15	1	7	9	11
170	10	12	11	7	10	10	7	12	5	9	11	4	8	10	3
171	9	12	3	11	13	9	6	11	6	15	16	1	15	12	0
172	10	12	11	10	12	10	7	12	5	13	14	0	11	10	11
173	7	10	10	7	10	10	7	12	5	11	12	5	5	9	5
174	7	10	10	5	9	10	5	10	6	11	12	5	7	9	11
175	10	12	11	10	12	10	7	12	5	13	14	0	13	11	7
176	3	8	11	4	9	3	4	9	10	5	9	7	10	10	9
177	7	10	10	10	12	10	7	12	5	13	14	0	26	15	3
178	7	10	10	5	9	10	5	10	6	8	10	10	10	10	9
179	7	10	10	9	12	1	7	12	5	14	15	1	3	8	10
180	7	10	10	11	13	9	5	10	6	9	11	4	24	14	7

Kuhlman-Anderson Intelligence Tests

Table I D

No. 28			No. 29			No. 30			No. 31			No. 32		
Test Scrs	M. Yr.	A. Mos.	Test Scrs	M. Yr.	A. Mos.	Test Scrs	M. Yr.	A. Mos.	Test Scrs	M. Yr.	A. Mos.	Test Scrs	M. Yr.	A. Mos.
5	10	3	9	13	10	7	12	10	10	14	11	6	14	3
4	9	9	4	10	10	5	11	10	6	12	4	3	11	9
7	11	4	4	10	10	9	14	0	5	11	11	4	12	6
5	10	3	8	13	2	5	11	10	5	11	11	1	10	5
9	12	5	8	13	2	7	12	10	11	15	8	4	12	6
11	13	10	3	10	4	10	14	8	8	13	4	3	11	9
9	12	5	3	10	4	8	13	4	7	12	10	4	12	6
10	13	2	4	10	10	8	13	4	0	0	0	4	12	6
6	10	8	3	10	4	0	0	0	5	11	11	5	13	4
8	11	11	5	11	4	8	13	4	6	12	4	4	12	6
9	12	5	5	11	4	7	12	10	8	13	4	4	12	6
8	11	11	7	12	6	10	14	8	12	16	7	7	15	3
5	10	3	6	11	11	9	14	0	10	14	11	4	12	6
5	10	3	0	0	0	8	13	4	5	11	11	4	12	6
6	10	8	3	10	4	6	12	4	6	12	4	7	15	3
6	10	8	6	11	11	8	13	4	7	12	10	4	12	6
6	10	8	5	11	4	9	14	0	9	14	1	6	14	3
4	9	9	7	12	6	10	14	8	9	14	1	5	13	4
8	11	11	8	13	2	12	16	5	8	13	4	5	13	4
6	10	8	3	10	4	8	13	4	5	11	11	0	0	0
4	9	9	4	10	10	5	11	10	8	13	4	1	10	5
6	10	8	4	10	10	8	13	4	9	14	1	1	10	5
6	10	8	5	11	4	5	11	10	3	10	11	1	10	5
6	10	8	2	10	0	5	11	10	8	13	4	8	16	5
6	10	8	5	11	4	10	14	8	11	15	8	1	10	5
1	8	5	5	11	4	8	13	4	7	12	10	0	0	0
8	11	11	2	10	0	10	14	8	8	13	4	2	11	2
[illegible]	15	8	7	12	6	12	16	5	10	14	11	5	13	4
3	9	4	4	10	10	0	0	0	4	11	5	3	11	9
9	12	5	2	10	0	8	13	4	6	12	4	7	15	3
6	10	8	6	11	11	6	12	4	7	12	10	9	17	9
6	10	8	8	13	2	11	15	4	12	16	7	6	14	3
0	13	2	6	11	11	11	15	4	8	13	4	4	12	6
5	10	3	7	12	6	8	13	4	7	12	10	4	12	6
6	10	8	6	11	11	5	11	10	10	14	11	4	12	6
9	12	5	3	10	4	8	13	4	7	12	10	4	12	6
0	13	2	3	10	4	7	12	10	8	13	4	1	10	5
6	10	8	3	10	4	7	12	10	8	13	4	0	0	0
3	9	4	4	10	4	6	12	4	9	14	1	5	13	4
4	9	9	12	16	7	10	14	8	10	14	11	7	15	3
[illegible]	9	0	3	10	4	4	11	4	5	11	11	3	11	9
[illegible]	13	10	8	13	2	5	11	10	13	17	6	6	14	3
[illegible]	11	4	4	10	10	7	12	10	4	11	5	3	11	9
[illegible]	11	11	5	11	4	9	14	0	8	13	4	4	12	6
[illegible]	8	5	5	11	4	8	13	4	7	12	10	2	11	2

a (2) C. A. Mos.	b Yr.	Mos.	a (3) M. A. with Arithmetic Mos.	b Yr.	Mos.	a (4) M. A. no Arithmetic Mos.	b Yr.	Mos.	(5) I. Q. with Arth.	(6) I. Q. no Arth.	(7) Diff. in I. Q.
152	12	8	152	12	8	154	12	10	100	101	1
143	11	11	128	10	8	130	10	10	90	91	1
129	10	9	147	12	3	150	12	6	114	116	2
143	11	11	128	10	8	126	10	6	90	88	-2
139	11	7	152	12	8	154	12	10	109	111	2
127	10	7	148	12	4	154	12	10	117	121	4
147	12	3	149	12	5	149	12	5	101	101	0
141	11	9	140	11	8	130	10	10	99	92	-7
134	11	2	137	11	5	143	11	11	102	107	5
135	11	3	150	12	6	150	12	6	111	111	0
135	11	3	154	12	10	154	12	10	114	114	0
140	11	8	171	14	3	176	14	8	122	126	4
142	11	10	127	10	7	130	10	10	89	92	3
147	12	3	138	11	6	136	11	4	94	93	-1
130	10	10	148	12	4	148	12	4	114	114	0
135	11	3	141	11	9	143	11	11	104	106	2
130	10	10	159	13	3	160	13	4	122	123	1
132	11	0	163	13	7	165	13	9	123	125	2
137	11	5	160	13	4	160	13	4	117	117	0
146	12	2	129	10	9	130	10	10	88	89	1
149	12	5	126	10	6	126	10	6	85	85	0
133	11	1	152	12	8	154	12	10	114	116	2
134	11	2	127	10	7	128	10	8	95	95	0
131	10	11	148	12	4	149	12	5	113	114	1
141	11	9	137	11	5	138	11	6	97	98	1
134	11	2	126	10	6	123	10	3	94	92	-2
136	11	4	149	12	5	155	12	11	109	114	5
125	10	5	163	13	7	165	13	9	130	132	2
150	12	6	128	10	8	130	10	10	85	87	2
139	11	7	143	11	11	148	12	4	103	106	3
142	11	10	148	12	4	148	12	4	104	104	0
134	11	2	157	13	1	158	13	2	117	118	1
130	10	10	159	13	3	163	13	7	122	125	3
134	11	2	149	12	5	150	12	6	111	112	1
148	12	4	143	11	11	143	11	11	96	96	0
130	10	10	150	12	6	150	12	6	115	115	0
135	11	3	154	12	10	154	12	10	114	114	0
129	10	9	130	10	10	130	10	10	101	101	0
137	11	5	128	10	8	130	10	10	93	95	2
125	10	5	162	13	6	168	14	0	130	134	4
142	11	10	121	10	1	118	9	10	85	83	-2
154	12	10	162	13	6	158	13	2	105	103	-2
132	11	0	130	10	10	130	10	10	98	98	0
125	10	5	147	12	3	149	12	5	117	119	2
144	12	0	136	11	4	136	11	4	94	94	0

Normal Age Equivalents of Test Scores

Mental Age Equivalents of Test Scores

Candidate	No. 23 Test Scrs	M. Yr.	A. Mos.	No. 24 Test Scrs	M. Yr.	A. Mos.	No. 25 Test Scrs	M. Yr.	A. Mos.	No. 26 Test Scrs	M. Yr.	A. Mos.	No. 27 Test Scrs	M. Yr.	A. Mo
181	6	10	3	10	12	10	8	13	7	12	13	2	9	10	6
182	0	0	0	9	12	1	7	12	5	13	14	0	14	11	10
183	9	12	3	8	11	6	5	10	6	11	12	5	15	12	0
184	9	12	3	6	10	3	7	12	5	10	11	11	14	11	10
185	8	11	6	9	12	1	4	9	10	10	11	11	6	9	8
186	4	9	3	10	12	10	5	10	6	7	10	4	1	8	2
187	9	12	3	7	10	10	5	10	6	11	12	5	4	9	1
188	9	12	3	12	14	10	8	13	7	12	13	2	15	12	0
189	8	11	6	8	11	6	9	15	3	11	12	5	3	8	10
190	10	12	11	13	16	1	9	15	3	14	15	1	11	10	11
191	10	12	11	10	12	10	3	9	2	14	15	1	7	9	11
192	10	12	11	11	13	9	6	11	6	13	14	0	19	13	0
193	6	10	3	12	14	10	8	13	7	14	15	1	11	10	11
194	10	12	11	8	11	6	7	12	5	11	12	5	8	10	3
195	6	10	3	6	10	3	2	8	8	9	11	4	9	10	6
196	10	12	11	12	14	10	6	11	6	13	14	0	19	13	0
197	10	12	11	8	11	6	7	12	5	10	11	11	6	9	8
198	7	10	10	11	13	9	6	11	6	14	15	1	11	10	11
199	9	12	3	10	12	10	6	11	6	13	14	0	4	9	1
200	10	12	11	9	12	1	7	12	5	13	14	0	19	13	0
201	9	12	3	9	12	1	3	9	2	9	11	4	9	10	6
202	10	12	11	8	11	6	7	12	5	11	12	5	21	13	9
203	8	11	6	8	11	6	6	11	6	13	14	0	25	14	11
204	10	12	11	10	12	10	6	11	6	13	14	0	22	14	0
205	10	12	11	8	11	6	6	11	6	14	15	1	19	13	0
206	10	12	11	8	11	6	6	11	6	13	14	0	19	13	0
207	4	9	3	5	9	10	3	9	2	10	11	11	11	10	11
208	0	10	0	10	12	10	7	12	5	10	11	11	7	9	11
209	4	9	3	5	9	10	2	8	8	4	9	3	13	11	7
210	3	8	11	7	10	10	6	11	6	6	10	0	3	8	10
211	10	12	11	13	16	1	5	10	6	15	16	1	12	11	4
212	10	12	11	12	14	10	7	12	5	13	14	0	11	10	11
213	7	10	10	9	12	1	7	12	5	6	10	0	2	8	5
214	10	12	11	9	12	1	3	9	2	13	14	0	15	12	0
215	10	12	11	6	10	3	9	15	3	15	16	1	12	11	4
216	7	10	10	7	10	10	5	10	6	8	10	10	9	10	6
217	10	12	11	11	13	9	8	13	7	14	15	1	18	12	10
218	10	12	11	9	12	1	7	12	5	14	15	1	14	11	10
219	10	12	11	8	11	6	5	10	6	11	12	5	9	10	6
220	8	11	6	5	9	10	7	12	5	10	11	11	4	9	1
221	10	12	11	14	17	4	7	12	5	10	11	11	9	10	6
222	8	11	6	8	11	6	6	11	6	11	12	5	13	11	7
223	10	12	11	7	10	10	9	15	3	13	14	0	11	10	11
224	8	11	6	2	8	5	6	11	6	10	11	11	9	10	6
225	10	12	11	7	10	10	5	10	8	10	11	11	3	8	10

Kuhlman-Anderson Intelligence Tests

Table I D

No. 28			No. 29			No. 30			No. 31			No. 31		
Test Scrs	M. Yr.	A. Mos.	Test Scrs	M. Yr.	A. Mos.	Test Scrs	M. Yr.	A. Mos.	Test Scrs	M. Yr.	A. Mos.	Test Scrs	M. Yr.	A. Mos.
9	12	5	2	10	0	8	13	4	7	12	10	6	14	3
7	11	4	6	11	11	10	14	8	3	10	11	3	11	9
10	13	2	9	13	10	9	14	0	11	15	8	3	11	9
8	11	11	4	10	10	10	14	8	12	16	7	3	11	9
6	10	8	5	11	4	7	12	10	11	15	8	5	13	4
0	0	0	4	10	10	0	0	0	6	12	4	4	12	6
7	11	4	4	10	10	8	13	4	0	0	0	3	11	9
8	11	11	10	14	8	10	14	8	10	14	11	5	13	4
10	13	2	6	11	11	8	13	4	10	14	11	2	11	2
3	9	4	10	14	8	7	12	10	11	15	8	1	10	5
8	11	11	3	10	4	0	0	0	9	14	1	5	13	4
13	15	8	9	13	10	10	14	8	8	13	4	9	17	9
7	11	4	10	14	8	7	12	10	12	16	7	8	16	5
5	10	3	4	10	10	6	12	4	6	12	4	3	11	9
7	11	4	2	10	0	5	11	10	10	14	11	1	10	5
10	13	2	5	11	4	9	14	0	4	11	5	5	13	4
7	11	4	6	11	11	8	13	4	5	11	11	2	11	2
8	11	11	7	12	6	10	14	8	8	13	4	6	14	3
10	13	2	4	10	10	7	12	10	10	14	11	5	13	4
10	13	2	7	12	6	11	15	4	11	15	8	2	11	2
1	8	5	7	12	6	0	0	0	9	14	1	2	11	2
7	11	4	5	11	4	8	13	4	8	13	4	3	11	9
7	11	4	4	10	10	9	14	0	12	16	7	7	15	3
6	10	8	6	11	11	10	14	8	15	20	6	2	11	2
7	11	4	7	12	6	7	12	10	8	13	4	5	13	4
10	13	2	7	12	6	9	14	0	8	13	4	5	13	4
10	13	2	7	12	6	8	13	4	8	13	4	1	10	5
5	10	3	2	10	0	7	12	10	9	14	1	4	12	6
5	10	3	3	10	4	3	10	10	4	11	5	0	0	0
5	10	3	6	11	11	8	13	4	6	12	4	5	13	4
11	13	10	10	14	8	12	16	5	9	14	1	7	15	3
6	10	8	5	11	4	11	15	4	8	13	4	7	15	3
4	9	9	1	9	7	9	14	0	5	11	11	1	10	5
8	11	11	11	15	6	9	14	0	9	14	1	4	12	6
7	11	4	8	13	2	8	13	4	11	15	8	6	14	3
6	10	8	3	10	4	9	14	0	4	11	5	4	12	6
6	10	8	8	13	2	9	14	0	11	15	8	8	16	5
6	10	8	8	13	2	9	14	0	11	15	8	4	12	6
6	10	8	9	13	10	9	14	0	12	16	7	6	14	3
8	11	11	8	13	2	10	14	8	8	13	4	5	13	4
10	13	2	6	11	11	6	12	4	11	15	8	4	12	6
5	10	3	4	10	10	10	14	8	7	12	10	7	15	3
8	11	11	5	11	4	10	14	8	11	15	8	8	16	5
7	11	4	5	11	4	9	14	0	10	14	11	7	15	3
8	11	11	6	11	11	8	13	4	7	12	10	5	13	4

a (2) b C. A.			a (3) b M. A. with Arithmetic			a (4) b M. A. no Arithmetic			(5) I. Q. with	(6) I. Q. no	(7) Diff. in
Mos.	Yr.	Mos.	Mos.	Yr.	Mos.	Mos.	Yr.	Mos.	Arth.	Arth.	I. Q.
129	10	9	154	12	10	154	12	10	119	119	0
140	11	8	142	11	10	143	11	11	101	102	1
152	12	8	148	12	4	149	12	5	97	98	1
127	10	7	143	11	11	143	11	11	112	112	0
137	11	5	141	11	9	143	11	11	103	104	1
134	11	2	125	10	5	126	10	6	93	94	1
132	11	0	133	11	1	136	11	4	101	103	2
134	11	2	162	13	6	163	13	7	121	121	0
132	11	0	146	12	2	149	12	5	110	113	3
134	11	2	166	13	10	176	14	8	124	131	7
134	11	2	149	12	5	154	12	10	111	115	4
148	12	4	166	13	10	166	13	10	112	112	0
117	9	9	170	14	2	176	14	8	145	150	5
129	10	9	143	11	11	148	12	4	111	115	4
149	12	5	126	10	6	125	10	5	85	84	-1
147	12	3	157	13	1	158	13	2	107	107	0
129	10	9	143	11	11	143	11	11	111	111	0
139	11	7	155	12	11	160	13	4	111	115	4
143	11	11	154	12	10	154	12	10	108	108	0
147	12	3	156	13	0	155	12	11	106	105	-1
142	11	10	135	11	3	136	11	4	95	96	1
132	11	0	149	12	5	149	12	5	113	113	0
139	11	7	147	12	3	138	11	6	106	99	-7
139	11	7	155	12	11	154	12	10	111	111	0
137	11	5	155	12	11	154	12	10	113	112	-1
133	11	1	157	13	1	158	13	2	118	119	1
149	12	5	137	11	5	143	11	11	92	96	4
139	11	7	146	12	2	149	12	5	105	107	2
134	11	2	122	10	2	118	9	10	91	88	-3
128	10	8	134	11	2	138	11	6	105	108	3
141	11	9	173	14	5	176	14	8	123	125	2
143	11	11	158	13	2	160	13	4	110	112	2
129	10	9	128	10	8	130	10	10	99	101	2
158	13	2	153	12	9	155	12	11	97	98	1
156	13	0	159	13	3	160	13	4	102	103	1
135	11	3	130	10	10	130	10	10	96	96	0
125	10	5	164	13	8	165	13	9	131	132	1
144	12	0	153	12	9	155	12	11	106	108	2
144	12	0	152	12	8	155	12	11	105	108	3
124	10	4	146	12	2	155	12	11	117	125	8
154	12	10	150	12	6	150	12	6	97	97	0
134	11	2	139	11	7	138	11	6	104	103	-1
133	11	1	162	13	6	168	14	0	122	126	4
136	11	4	136	11	6	138	11	6	101	101	0
139	11	7	143	11	11	143	11	11	103	103	0

Mental Age Equivalents of Test Scores

Candidate	No. 23 Test Scrs	M. Yr.	A. Mos.	No. 24 Test Scrs	M. Yr.	A. Mos.	No. 25 Test Scrs	M. Yr.	A. Mos.	No. 26 Test Scrs	M. Yr.	A. Mos.	No. 27 Test Scrs	M. Yr.	A. Mo
226	10	12	11	11	13	9	4	9	10	13	14	0	10	10	9
227	8	11	6	13	8	10	0	0	0	9	11	4	5	9	5
228	9	12	3	0	0	0	5	10	6	11	12	5	5	9	5
229	10	12	11	8	11	6	10	17	1	15	16	1	22	14	0
230	10	12	11	11	13	9	8	13	7	15	16	1	12	11	4
231	10	12	11	5	9	10	2	8	8	12	13	2	6	9	8
232	8	11	6	9	12	1	6	11	6	12	13	2	27	15	6
233	8	11	6	8	11	6	4	9	11	8	10	10	7	9	11
234	7	10	10	8	11	6	5	10	6	12	13	2	7	9	11
235	9	12	3	4	9	3	2	8	8	10	11	11	6	9	8
236	7	10	10	2	8	5	2	8	8	11	12	5	8	10	3
237	10	12	11	13	16	1	9	15	3	14	15	1	9	10	6
238	10	12	11	8	11	6	10	17	1	14	15	1	12	11	4
239	10	12	11	11	13	9	7	12	5	13	14	0	23	14	3
240	9	12	3	6	10	3	5	10	6	14	15	1	21	13	9
241	6	10	3	6	10	3	6	11	6	16	10	0	15	12	0
242	6	10	3	11	13	9	6	11	6	14	15	1	10	10	9
243	10	12	11	11	13	9	4	9	10	12	13	2	21	13	9
244	10	12	11	5	9	10	2	8	8	13	14	0	15	12	0
245	10	12	11	2	14	10	9	15	3	13	14	0	15	12	0
246	10	12	11	7	10	10	7	12	5	15	16	1	24	14	7
247	9	12	3	9	12	1	5	10	6	13	14	0	27	15	6
248	8	11	6	10	12	10	6	11	6	12	13	2	9	10	6
249	10	12	11	4	9	3	6	11	6	8	10	10	11	10	11
250	9	12	3	11	13	9	7	12	5	11	12	5	6	9	8
251	5	9	11	8	11	6	4	9	10	10	11	11	20	13	9
252	10	12	11	13	16	1	7	12	5	15	16	1	21	13	9
253	9	12	3	9	12	1	6	11	6	11	12	5	7	9	11
254	7	10	10	11	13	9	2	8	8	11	12	5	7	9	11
255	7	10	10	6	10	3	4	9	10	10	11	11	1	8	2
256	9	12	3	9	12	1	4	9	10	13	14	0	7	12	6
257	10	12	11	11	13	9	8	13	7	11	12	5	10	10	9

Kuhlman-Anderson Intelligence Tests

Table I D

No. 28			No. 29			No. 30			No. 31			No. 32		
Test Scrs	M. Yr.	A. Mos.	Test Scrs.	M. Yr.	A. Mos.	Test Scrs	M. Yr.	A. Mos.	Test Scrs	M. Yr.	A. Mos.	Test Scrs	M. Yr.	A. Mos.
6	10	8	5	11	4	9	14	0	4	11	5	5	13	4
10	13	2	3	10	4	8	13	4	9	14	1	0	0	0
8	11	11	7	12	6	7	12	10	9	14	1	0	0	0
10	13	2	6	11	11	13	17	4	12	16	7	4	12	6
5	10	3	7	12	6	8	13	4	12	16	7	3	11	9
8	11	11	7	12	6	8	13	4	0	0	0	0	0	0
5	10	3	12	16	7	5	11	10	9	14	1	3	11	9
10	13	2	5	11	4	7	12	10	8	13	4	3	11	9
5	10	3	6	11	11	7	12	10	5	11	11	7	15	3
3	9	4	5	11	4	9	14	0	5	11	11	1	10	5
3	9	4	3	10	4	0	0	0	1	10	2	1	10	5
13	15	8	14	19	0	11	15	4	12	16	7	5	13	4
9	12	5	8	13	2	12	16	5	13	17	6	8	16	5
7	11	4	6	11	11	12	16	5	7	12	10	6	14	3
9	12	5	5	11	4	9	14	0	6	12	4	3	11	9
5	10	3	4	10	10	5	11	10	5	11	11	4	12	6
5	10	3	7	12	6	7	12	10	7	12	10	3	11	9
8	11	11	9	13	10	9	14	0	10	14	11	2	11	2
7	11	4	4	10	10	10	14	8	0	0	0	3	11	9
9	12	5	3	10	4	8	13	4	4	11	5	4	12	6
8	11	11	2	10	0	5	11	10	9	14	1	8	16	5
5	10	3	5	11	4	9	14	0	0	0	0	5	13	4
9	12	5	6	11	11	12	16	5	9	14	1	1	10	5
8	11	11	6	11	11	6	12	4	9	14	1	3	11	9
11	13	10	9	13	10	10	14	8	9	14	1	7	15	3
11	13	10	3	10	4	9	14	0	10	14	11	3	11	9
8	11	11	6	11	11	10	14	8	10	14	11	7	15	3
5	10	3	2	10	0	4	11	4	6	12	4	2	11	2
3	9	4	2	10	0	6	12	4	8	13	4	3	11	9
3	9	4	2	10	0	9	14	0	5	11	11	0	0	0
7	11	4	4	10	10	8	13	4	9	14	1	3	11	9
12	14	8	10	14	8	10	14	8	10	14	11	6	14	3

s	(2) b C. A.			a (3) b M. A. with Arithmetic			a (4) b M. A. no Arithmetic			(5) I. Q. with Arth.	(6) I. Q. no Arth.	(7) Diff. in I. Q.
	Mos.	Yr.	Mos.	Mos.	Yr.	Mos.	Mos.	Yr.	Mos.			
	138	11	6	146	12	2	155	12	11	106	112	6
	135	11	3	130	10	10	136	11	4	96	101	5
	153	12	9	145	12	1	147	12	3	95	96	1
	140	11	8	163	13	7	158	13	2	116	113	-3
	135	11	3	158	13	2	160	13	4	117	118	1
	138	11	6	131	10	11	143	11	11	95	104	9
	127	10	7	144	12	0	142	11	10	113	112	-1
	141	11	9	140	11	8	138	11	6	99	98	-1
	134	11	2	141	11	9	143	11	11	105	107	2
	134	11	2	131	10	11	136	11	4	98	102	4
	153	12	9	123	10	3	122	10	2	80	80	0
	133	11	1	184	15	4	184	15	4	138	138	0
	138	11	6	170	14	2	181	15	1	123	131	8
	140	11	8	161	13	5	155	12	11	115	111	-4
	145	12	1	148	12	4	147	12	3	102	101	-1
	123	10	3	134	11	2	130	10	10	109	106	-3
	128	10	8	146	12	2	150	12	6	114	117	3
	123	10	3	162	13	6	158	13	2	132	128	-4
	129	10	9	139	11	7	136	11	4	108	105	-3
	138	11	6	153	12	9	155	12	11	111	112	1
	132	11	0	152	12	8	149	12	5	115	113	-2
	131	10	11	146	12	2	145	12	1	111	111	0
	137	11	5	146	12	2	149	12	5	106	109	3
	135	11	3	142	11	10	143	11	11	105	106	1
	148	12	4	166	13	10	166	13	10	112	112	0
	136	11	4	142	11	10	141	11	9	104	104	0
	139	11	7	171	14	3	176	14	8	123	127	4
	128	10	8	137	11	5	138	11	6	107	108	1
	132	11	0	136	11	4	141	11	9	103	107	4
	122	10	2	122	10	2	123	10	3	100	101	1
	143	11	11	146	12	2	145	12	1	102	101	-1
	142	11	10	168	14	0	171	14	3	118	120	2

(from page 41)
a simple matter to indicate the increases or decreases or effect of no difference in Table IA, pages 7-12 column 13; Table IB, pages 19-25 column 13; Table IC, pages 31-36 column 17; Table ID, pages 42-47 column 6. These columns showing the increases and decreases become then the immediate basis for conclusion. The conclusion is arrived at in this study by the construction of a frequency for each test, directly from the columns of changes just referred to in the second sentence above. These appear as

Table IVA for the National Intelligence Test (page 53);

Table IVB for the Terman Group Test (page 55);

Table IVC for the Army Alpha Test (page 58) and

Table IVD for the Kuhlmann-Anderson Test (page 60).

From these frequency tables were constructed graphs for each test. (See Figures 1A, page 54; Figure 1B, page 56; Figure 1C, page 59; Figure 1D, page 61).

(Discussion continued on page 52)

TABLE III A

National Intelligence Tests Scale A-Form I

METHOD OF OBTAINING UNPUBLISHED MENTAL AGE EQUIVALENTS USING AS A BASIS THE PUBLISHED TEST SCORES WITH THEIR CORRESPONDING MENTAL AGE EQUIVALENTS

Score	Mental Age in months	Range
* 31 - 40	88 - 96	8 *
41 - 50	97 -105	8
51 - 60	106 -113	7
61 - 70	114 -121	7
71 - 80	122 -129	7
81 - 90	130 -136	6
91 -100	137 -143	6

* The starred item is the manufactured range of months.

TABLE III B (See Text)

Terman Group Test of Mental Ability

METHOD OF OBTAINING UNPUBLISHED MENTAL AGE EQUIVALENTS USING AS A BASIS THE PUBLISHED TEST SCORES WITH THEIR CORRESPONDING MENTAL AGE EQUIVALENTS

Scores	Mental Age in months	Range
100 - 110	177 - 183	6
111 - 120	184 - 189	5
121 - 130	190 - 195	5
131 - 140	195 - 200	5
141 - 150	201 - 206	5
151 - 160	206 - 212	6
161 - 170	213 - 219	6
171 - 180	220 - 227	7
181 - 190	227 - 235	8
191 - 200	236 - 244	8
* 201 - 210	244 - 252	8 *
* 211 - 220	253 - 260	7 *
* 221 - 230	261 - 268	7 *

* Starred items are the manufactured range in months.

TABLE III C (See Text)

Revised Alpha Examination Form 7

METHOD OF OBTAINING UNPUBLISHED MENTAL AGE EQUIVALENTS USING AS A BASIS THE PUBLISHED TEST SCORES WITH THEIR CORRESPONDING MENTAL AGE EQUIVALENTS

Scores	Mental Age in months	Range
100 - 110	196 - 202	6
111 - 120	202 - 207	5
121 - 130	207 - 212	5
131 - 140	213 - 218	5
141 - 150	218 - 223	5
151 - 160	223 - 228	5
* 161 - 170	228 - 234	6 *
* 171 - 180	234 - 240	6 *
* 181 - 190	241 - 246	5 *
* 191 - 200	246 - 251	5 *

* Starred items are the manufactured range in months.

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CHAPTER III

RESULTS OF THE STUDY

Having constructed the graphs showing the effect on scores of omitting the arithmetic, the next question is one of interpretation.

The Figures 1A, page 54; 1B, page 56; 1C, page 59; 1D, page 61; showing effect of omitting arithmetic are summarized from Tables IVA, page 53; IVB, page 55; IVC, page 58; IVD, page 60. These tables, IVA, IVB, IVC, IVD, are in turn tabulated from column 13 of Tables IA, pages 7-12; column 13 of IB, pages 19-25; column 17 of Table IC, pages 31-36; and column 7 of Table ID, pages 42-47.

It is evident that the arithmetic section of the National Intelligence Test (Table IVA, page 53) is slightly more difficult than the test as a whole, since the new intelligence scores with arithmetic omitted show many increases and few decreases. The median of the difference is a plus 6 points with a probable error ±14, see figure 1A, page 54 for graphic representation of the results.

The difference in scores when arithmetic is omitted, for the Terman Group Test, are shown in Table IVB, page 55. The changes in scores range from "0" to plus "19". The median is plus 7, with a probable error ±12. The arithmetic therefore, is slightly more difficult proportionally than in the National Intelligence Tests. (Continued on page 57)

TABLE IVA (See Text)

National Intelligence Test

DIFFERENCES IN INTELLIGENCE QUOTIENTS
DUE TO THE OMISSION OF ARITHMETIC
FROM THE INTELLIGENCE TEST

Difference	Frequency
14	2
13	1
12	7
11	6
10	17
9	23
8	22
7	28
6	25
5	27
4	28
3	25
2	12
1	11
0	8
-1	3
-2	2
-3	2
	249

Median	+6
P. $E._m$	± .14
S. D.	3.2
$Rel._{s.d.}$	± .25

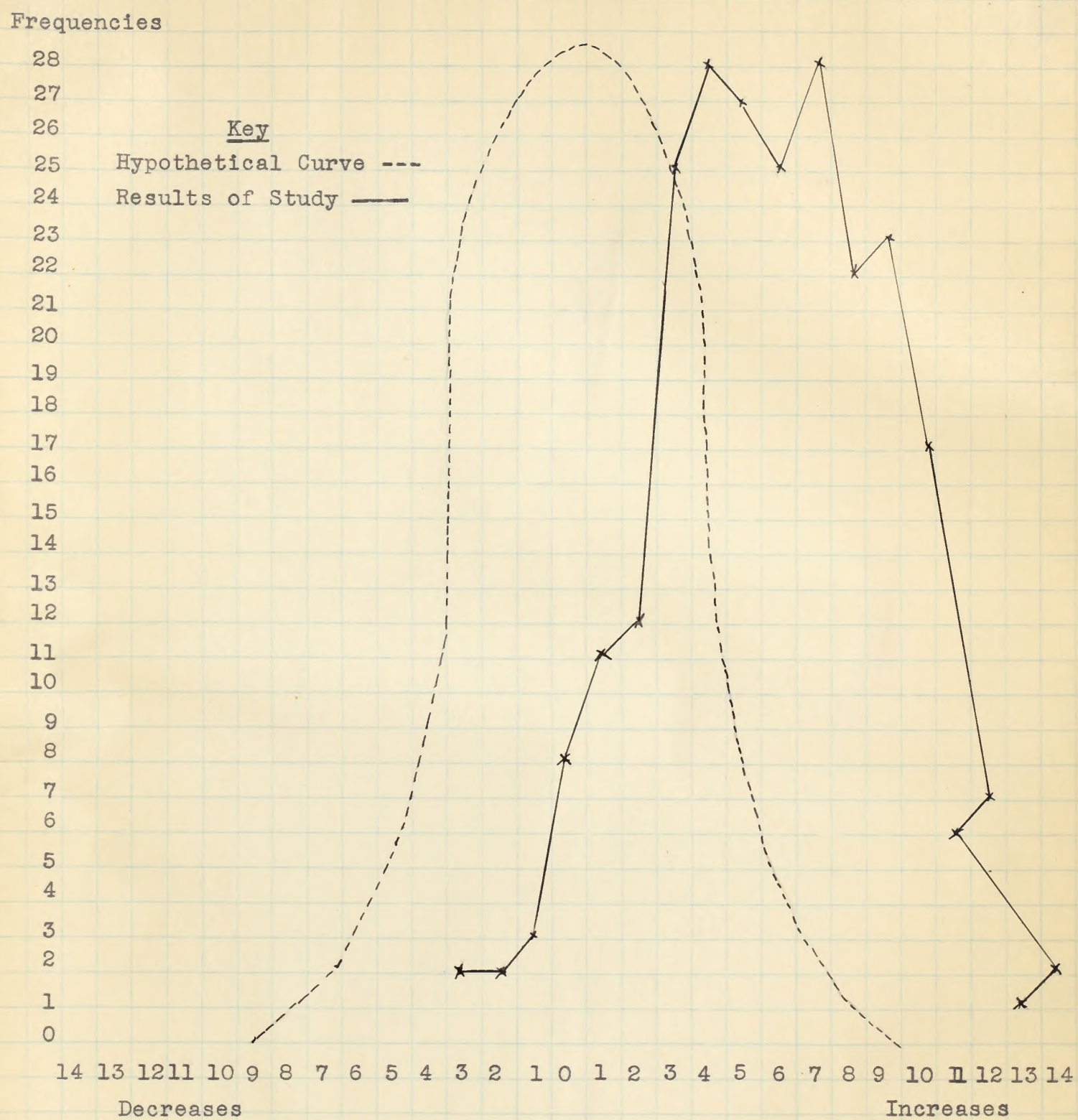

Figure 1 A

NATIONAL INTELLIGENCE TEST SCALE A-FORM I

A Comparison of the Increases and Decreases of Scores in the Intelligence Quotient Due to Omission of the Arithmetic Section with a Hypothetical Curve Showing a Normal Curve of Distribution on a Basis of Equal Spread

TABLE IV B (See Text)

Terman Group Test of Mental Ability

DIFFERENCES IN INTELLIGENCE QUOTIENTS
DUE TO THE OMISSION OF ARITHMETIC
FROM THE INTELLIGENCE TEST

Difference	Frequency
19	1
18	1
17	0
16	4
15	5
14	8
13	7
12	11
11	21
10	20
9	28
8	33
7	51
6	43
5	40
4	23
3	9
2	3
1	2
0	1
	311

Median	+ 7
P. $E._m$	$\pm$ .12
S. D.	3.23
$Rel._{s.d.}$	$\pm$ .22

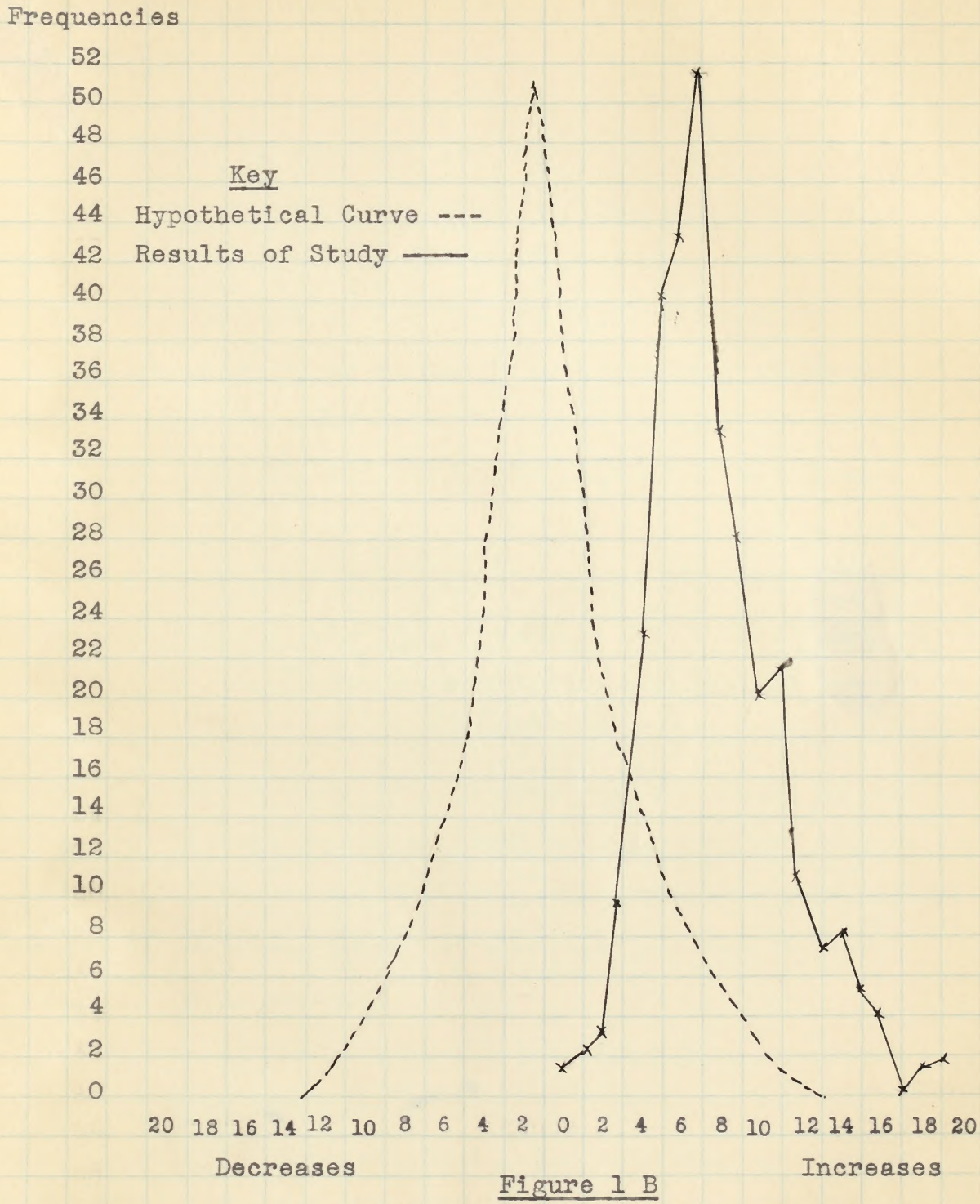

Figure 1 B

TERMAN GROUP TEST OF MENTAL ABILITY

A Comparison of the Increases and Decreases of Scores in the Intelligence Quotient Due to Omission of the Arithmetic Section with a Hypothetical Curve Showing a Normal Curve of Distribution on a Basis of Equal Spread

(from page 52)
Graphic representation of the effect of omitting the arithmetic from the Terman Group Test is shown in Figure 1B, page 56.

The increases and decreases on the Revised Alpha Examination (Table IVC, page 58, and Figure 1C, page 59) corresponds more closely to a hypothetical normal curve of distribution constructed on the same basis. Evidently the arithmetic sections of the Revised Alpha Examination are so scaled and weighted as to throw the score very little in either direction. The distribution of changes are shown in Table IVC, page 58, and Figure 1C, page 59 is based upon this table.

Figure 1D, page 61 based upon Table IVD, page 60 showing the increases and decreases due to omitting the arithmetic sections of the Kuhlmann-Anderson Intelligence Tests, shows very close correspondence with the hypothetical normal curve of distribution. This indicates that either by chance or design the arithmetic sections of this test are scaled, in such a manner that when including the arithmetic part of the test, it leaves the median at the same point as if the arithmetic were omitted.

The statements made in the four preceding paragraphs should be interpreted as definitely limited by the data of this study. There is also the assumption that procedures throughout the tests, covering such items as directions, time allowances, etc. are correct.

TABLE IVC (See Text)

Revised Alpha Examination Form 7

DIFFERENCES IN INTELLIGENCE QUOTIENTS
DUE TO THE OMISSION OF ARITHMETIC
FROM THE INTELLIGENCE TEST

Difference	Frequency
6	1
5	3
4	7
3	21
2	48
1	53
0	59
-1	38
-2	13
-3	5
-4	1
-5	0
-6	2
-7	0
-8	2
	253

Median	+ 1
P. $E._m$	$\pm$ .08
S. D.	1.95
Rel.s.d.	$\pm$ .15

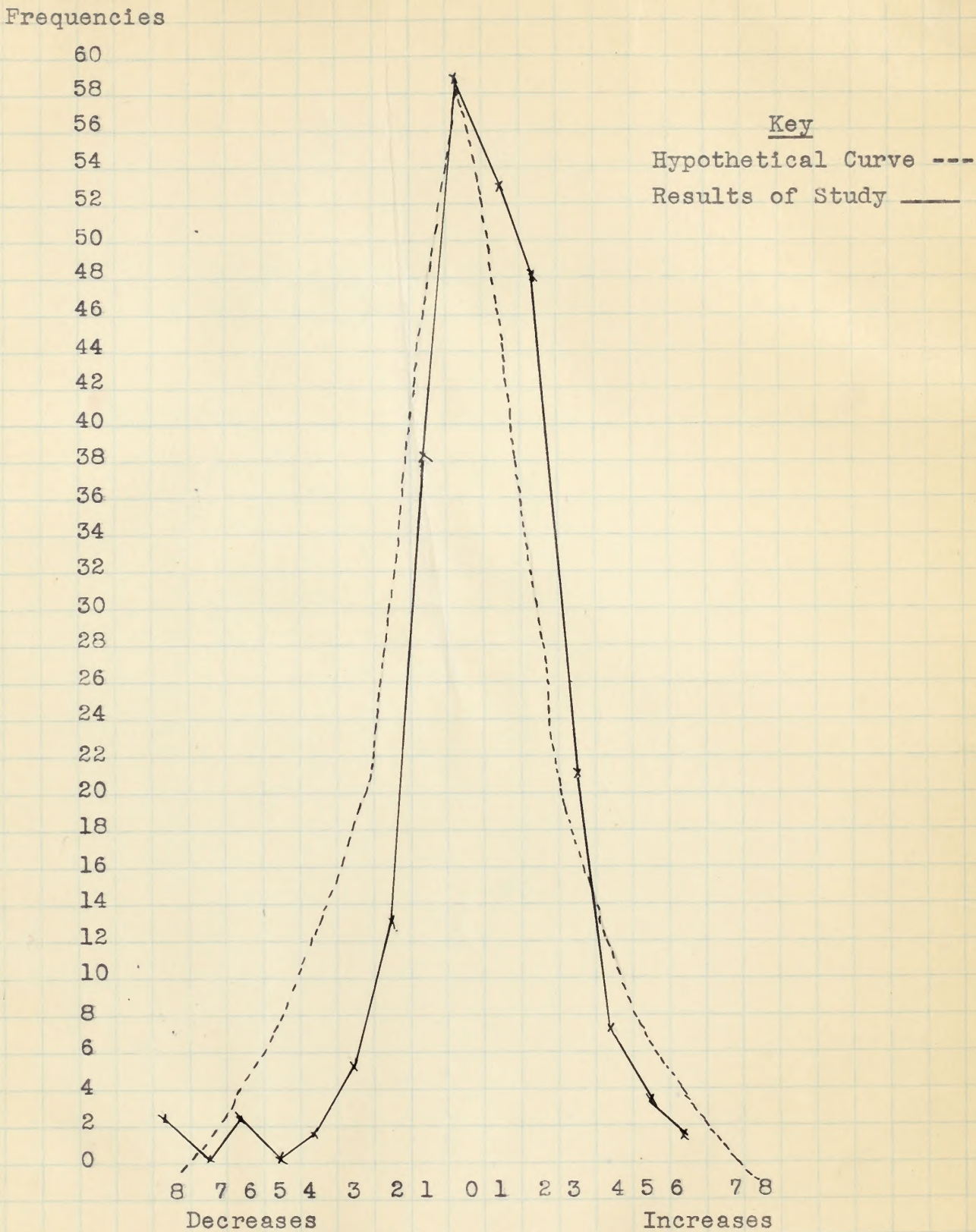

Figure 1 C

REVISED ALPHA EXAMINATION FORM 7

A Comparison of the Increases and Decreases of Scores in the Intelligence Quotient Due to Omission of the Arithmetic Section with a Hypothetical Curve Showing a Normal Curve of Distribution on a Basis of Equal Spread

TABLE IVD (See Text)

Kuhlman-Anderson Intelligence Test

DIFFERENCES IN INTELLIGENCE QUOTIENTS
DUE TO THE OMISSION OF ARITHMETIC
FROM THE INTELLIGENCE TEST

Difference	Frequency
9	1
8	2
7	2
6	3
5	5
4	20
3	17
2	34
1	49
0	73
-1	21
-2	14
-3	9
-4	3
-5	1
-6	0
-7	3
	257

Median	+1
P. $E._m$	±.10
S. D.	2.33
Rel.s.d.	±.17

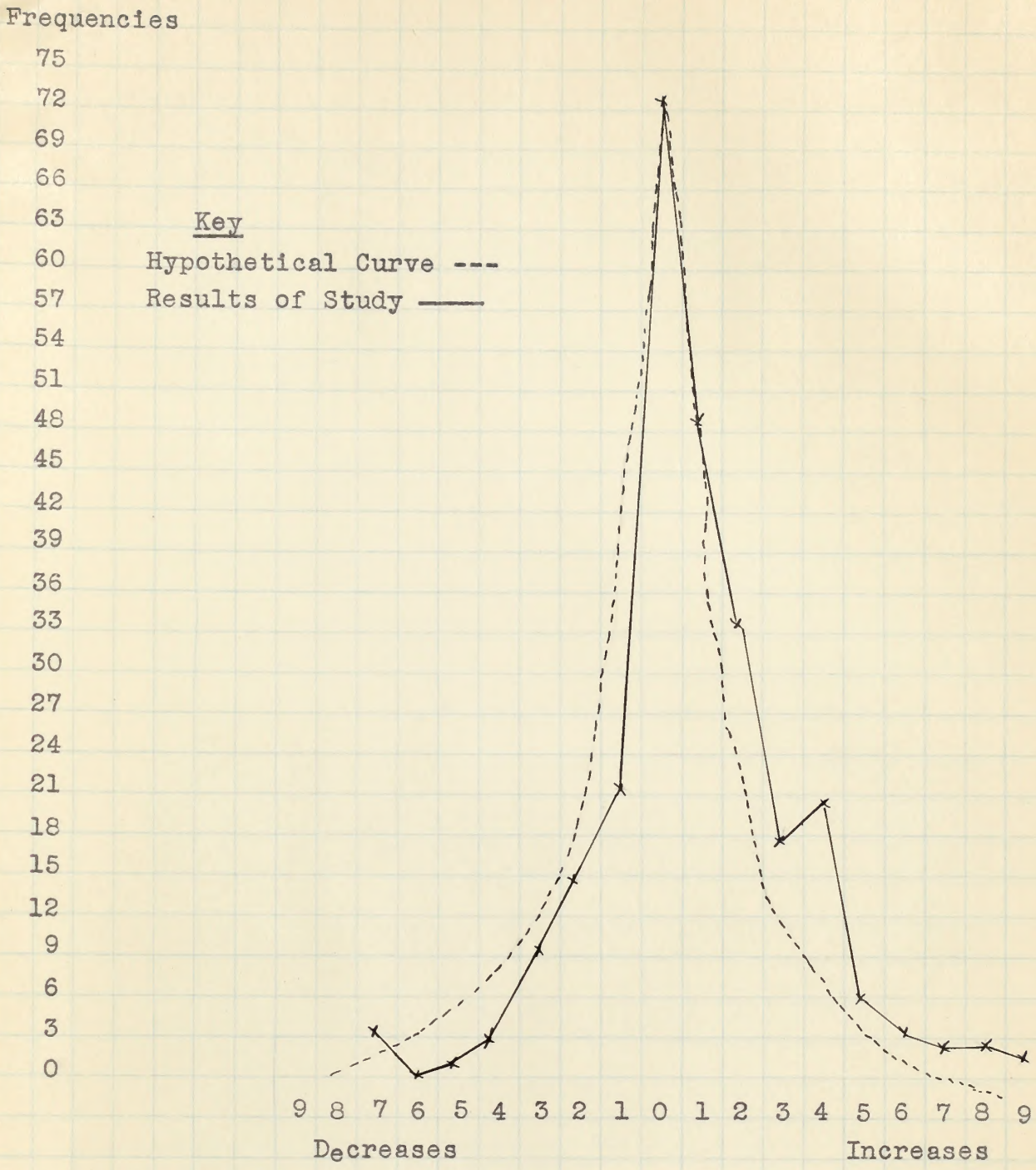

Figure 1 D

KUHLMAN-ANDERSON INTELLIGENCE TEST

A Comparison of the Increases and Decreases of Scores in the Intelligence Quotient Due to Omission of the Arithmetic Section with a Hypothetical Curve Showing a Normal Curve of Distribution on a Basis of Equal Spread

NATIONAL INTELLIGENCE TESTS

TEST 1. Scale A. Form 1.

Find all the answers as quickly as you can.
Write the answers on the dotted lines.
Use the sides or bottom of the page to figure on.

Begin here:

1. Five cents make 1 nickel. How many nickels make a dime? Answer.....

2. John paid 5 dollars for a watch and 3 dollars for a chain. How many dollars did he pay for the watch and the chain? Answer.....

3. Nell is 13 years old. Mary is 9 years old. How much younger is Mary than Nell? Answer.....

4. One quart of ice cream is enough for 5 persons. How many quarts of ice cream are needed for 25 persons? Answer.....

5. John's grandmother is 86 years old. If she lives, in how many years will she be 100 years old? Answer.....

6. If a man gets $2.50 a day, what will he be paid for six days' work? Answer.....

7. How many inches are there in a foot and a half? Answer.....

8. What is the cost of 12 cakes at 6 for 5 cents? Answer.....

9. The uniforms for a baseball team of nine boys cost $2.50 each. The shoes cost $2.00 a pair. What was the total cost of uniforms and shoes for the nine? Answer.....

10. A train that usually arrives at half-past ten was 17 minutes late. When did it arrive? Answer.....

11. At 10¢ a yard, what is the cost of a piece of ribbon 10½ feet long? Answer.....

12. A man earns $6 a day half the time, $4.50 a day one fourth of the time, and nothing on the remaining days for a total period of 40 days. What did he earn in all in the 40 days? Answer.....

13. What per cent of $800 is 4% of $1000? Answer.....

14. If 60 men need 1500 lb. flour per month, what is needed per man per day, counting a month as 30 days? Ans.....

15. A car goes at the rate of a mile a minute. A truck goes 20 miles an hour. How many times as far will the car go as the truck in 10 seconds? Answer.....

16. The area of the base (inside measure) of a cylindrical tank is 90 square feet. How tall must it be to hold 100 cubic yards? Answer.....

NATIONAL INTELLIGENCE TESTS

TEST 1. Scale A. Form L.

Find all the answers as quickly as you can.
Write the answers on the dotted lines.
Use the sides or bottom of the page to figure on.

Begin here:

1. Five cents make 1 nickel. How many nickels make a dime?
Answer.....

2. John paid 5 dollars for a watch and 3 dollars for a chain. How many dollars did he pay for the watch and the chain?
Answer.....

3. Nell is 13 years old. Mary is 9 years old. How much younger is Mary than Nell?
Answer.....

4. One quart of ice cream is enough for 5 persons. How many quarts of ice cream are needed for 25 persons?
Answer.....

5. John's grandmother is 80 years old. If she lives, in how many years will she be 100 years old?
Answer.....

6. If a man gets $2.50 a day, what will be paid for six days' work?
Answer.....

7. How many inches are there in a foot and a half?
Answer.....

8. What is the cost of 12 cakes at 6 for 5 cents?
Answer.....

9. The uniform for a baseball team of nine boys cost $2.50 each. The shoes cost $2.00 a pair. What was the total cost of uniform and shoes for the nine?
Answer.....

10. A train that usually arrives at half-past ten was 17 minutes late. When did it arrive?
Answer.....

11. At 10¢ a yard, what is the cost of a piece of ribbon 10½ feet long?
Answer.....

12. A man earns $6 a day half the time, $4.50 a day one fourth of the time, and nothing on the remaining days for a total period of 40 days. What did he earn in all in the 40 days?
Answer.....

13. What per cent of $800 is 4% of $1000?
Answer.....

14. If 60 men need 1500 lb. flour per month, what is needed per man per day, counting a month as 30 days?
Ans.....

15. A car goes at the rate of a mile a minute. A truck goes 20 miles an hour. How many times as far will the car go as the truck in 10 seconds?
Answer.....

16. The area of the base (inside measure) of a cylindrical tank is 90 square feet. How tall must it be to hold 100 cubic yards?
Answer.....

TERMAN GROUP TEST OF MENTAL ABILITY

For Grades 7 to 12 Form A

Test 5. Arithmetic

Find the answers as quickly as you can.
Write the answers on the dotted lines.
Use the bottom of the page to figure on.

---

1. How many hours will it take a person to go 66 miles at the rate of 6 miles an hour? Answer.....

2. At the rate of 2 for 5 cents, how many pencils can you buy for 50 cents? Answer.....

3. If a man earns $20 a week and spends $14, how long will it take him to save $300? Answer.....

4. 2 x 3 x 4 x 6 is how many times as much as 3 x 4? Answer.....

5. If two pies cost 66 cents, what does a sixth of a pie cost? Answer.....

6. What is 16 2/3 per cent of $120? Answer.....

7. 4 per cent of $1000 is the same as 8 per cent of what amount? Answer.....

8. A has $180, B has 2/3 as much as A, and C has ½ as much as B. How much have all together? Answer.....

9. The capacity of a rectangular bin is 48 cubic feet. If the bin is 6 feet long and 4 feet wide, how deep is it? Answer.....

10. If it takes 7 men 2 days to dig a 140-foot ditch, how many men are needed to dig it in half a day? Answer.....

11. A man spends ¼ of his salary for board and room, and 3/8 for all other expenses. What per cent of his salary does he save? Answer.....

12. If a man runs 100 yards in 10 seconds, how many feet does he run in 1/5 of a second? Answer.....

Right.....X 2 = Score.....

TERMAN GROUP TEST OF MENTAL ABILITY

For Grades 7 to 12

Form A

Test 5. Arithmetic

Find the answers as quickly as you can.
Write the answers on the dotted lines.
Use the bottom of the page to figure on.

---

1. How many hours will it take a person to go 60 miles at the rate of 6 miles an hour?
Answer.....

2. At the rate of 2 for 5 cents, how many pencils can you buy for 50 cents?
Answer.....

3. If a man earns $50 a week and spends $45, how long will it take him to save $300?
Answer.....

4. 2 x 3 x 4 x 6 is how many times as much as 3 x 4?
Answer.....

5. If two pies cost 60 cents, what does a sixth of a pie cost?
Answer.....

6. What is 16 2/3 per cent of $120?
Answer.....

7. 4 per cent of $1000 is the same as 8 per cent of what amount?
Answer.....

8. A has $120, B has 2/3 as much as A, and C has ½ as much as B. How much have all together? Answer.....

9. The capacity of a rectangular bin is 48 cubic feet. If the bin is 6 feet long and 4 feet wide, how deep is it?
Answer.....

10. If it takes 7 men 2 days to dig a 140-foot ditch, how many men are needed to dig it in half a day?
Answer.....

11. A man spends ¼ of his salary for board and room, and 3/8 for all other expenses. What per cent of his salary does he save?
Answer.....

12. If a man runs 100 yards in 10 seconds, how many feet does he run in 1/5 of a second?
Answer.....

Right.....X 2 = Score.....

TERMAN GROUP TEST OF MENTAL ABILITY

For Grades 7 to 12 Form A

Test 10. Number Series

Samples: 5 10 15 20 25 30. .35

20 18 16 14 12 10. ..8

In each row try to find out how the numbers are made up, then on the two dotted lines write the TWO numbers that should come next.

1st Row			8	7	6	5	4	3	...	...
2nd Row		3	8	13	18	23	28		...	...
3rd Row		11	3/4	12	12¼	12½	12	3/4	...	...
4th Row			8	8	6	6	4	4	...	...
5th Row		1	2	4	8	16	32		...	...
6th Row	4	3	5	4	6	5	7		...	...
7th Row			16	8	4	2	1	½	...	...
8th Row			8	9	12	13	16	17	...	...
9th Row	7	11	15	16	20	24	25	29	...	...
10th Row	31.3		40.3	49.3	58.3	67.3	76.3		...	...
11th Row					1/25	1/5	1	5	...	...
12th Row			3	4	6	9	13	18	...	...

Right..... X 2 = Score.....

TERMAN GROUP TEST OF MENTAL ABILITY

For Grades 7 to 12

Form A

Test 10. Number Series

Samples: 5 10 15 20 25 30 ... 35

20 18 16 14 12 10 ... 8

In each row try to find out how the numbers are made up, then on the two dotted lines write the TWO numbers that should come next.

1st Row			8	7	6	5	4	3	...	...
2nd Row		3	8	13	18	23	28		...	...
3rd Row		11	3/4	12	12¼	12½	12	3/4	...	...
4th Row			8	8	6	6	4	4	...	...
5th Row		1	2	4	8	16	32		...	...
6th Row	4	3	5	4	6	5	7		...	...
7th Row			16	8	4	2	1	½	...	...
8th Row			8	9	12	13	16	17	...	...
9th Row	7	11	15	16	20	24	25	29	...	...
10th Row	31.3	40.3	49.3	58.3	67.3	76.3			...	...
11th Row				1/25	1/5	1	5		...	...
12th Row			3	4	6	9	13	18	...	...

Right..... X 2 = Score.....

Arithmetic taken from the
KUHLMAN-ANDERSON INTELLIGENCE TEST

3				4			5
31	16	7	6	13	25	17	26
8	46	18	22	10	23	49	32
31	50	29	27	14	35	26	34
44	37	10	38	41	9	43	21
29	19	28	49	25	27	34	6
50	7	26	21	13	29	44	17
23	18	14	8	46	35	11	41
32	31	38	27	47	28	19	35
9	37	25	19	43	31	16	23

(Test No. 27)

KUHLMAN-ANDERSON INTELLIGENCE TEST

3 4 5

(Test No. 27)

REVISED ALPHA EXAMINATION FORM 7

NAME.....DATE.....

GROUP.....

DO NOT WRITE BELOW THIS LINE EXCEPT AS DIRECTED BY EXAMINER

TEST 1.

Below are five columns of ADDITIONS. You will use ONLY ONE of them. The examiner will tell you WHICH ONE to use. Be sure not to answer any other columns. After telling you which column to do, the examiner will say "ready, go," and you will then write each answer on the dotted line after the = sign. The examiner will say "stop" after 1½ minutes. You may not be able to finish all of them, but do as many as you can in the time allowed. Do any figuring on the page that you want to. The first two additions in each column are already done as they should be.

	Column 1	Column 2	Column 3	Column 4	Column 5
	3+ 4= 7	3+ 4= 7	3+ 4= 7	3+ 4= 7	3+ 4= 7
	8+ 6= 14	8+ 6= 14	8+ 6= 14	8+ 6= 14	8+ 6= 14
1.	15+ 2=	14+ 4=	13+ 4=	16+ 2=	15+ 3=
2.	23+ 5=	32+ 5=	25+ 3=	24+ 4=	23+ 4=
3.	44+ 4=	23+ 4=	42+ 5=	43+ 5=	32+ 6=
4.	33+ 7=	36+ 4=	45+ 6=	36+ 5=	43+ 7=
5.	16+ 6=	18+ 8=	17+ 7=	27+ 7=	26+ 6=
6.	74+ 9=	54+ 7=	64+ 9=	85+ 8=	75+ 9=
7.	87+ 8=	88+ 9=	76+ 7=	67+ 9=	67+ 8=
8.	31+17=	41+16=	31+18=	51+17=	51+16=
9.	54+13=	55+13=	52+16=	33+14=	32+15=
10.	93+32=	92+34=	93+23=	92+33=	92+24=
11.	45+26=	36+25=	44+28=	36+26=	46+25=
12.	79+17=	59+27=	69+17=	57+28=	67+19=
13.	58+46=	48+56=	55+48=	68+36=	65+38=
14.	125+39=	127+57=	128+38=	129+45=	147+27=
15.	168+28=	165+29=	149+26=	178+18=	169+26=
16.	174+67=	184+37=	168+67=	189+42=	173+68=
17.	239+82=	259+72=	254+79=	366+59=	287+74=
18.	466+67=	368+67=	457+86=	474+97=	468+69=
19.	324+136=	426+135=	346+124=	437+133=	343+127=
20.	375+147=	378+176=	485+169=	368+179=	476+198=
21.	579+274=	595+268=	679+277=	597+248=	689+245=
22.	668+455=	678+456=	663+578=	696+558=	676+569=
23.	959+376=	894+579=	868+579=	887+395=	897+584=
24.	1,282+879=	1,787+438=	1,487+664=	1,367+794=	1,457+678=

REVISED ASPHA EXAMINATION FORM 1

NAME.....DATE.....

GROUP.....

DO NOT WRITE BELOW THIS LINE EXCEPT AS DIRECTED BY EXAMINER

TEST 1.

Below are five columns of ADDITIONS. You will use ONLY ONE of them. The examiner will tell you WHICH ONE to use. Be sure not to answer any other columns. After telling you which column to do, the examiner will say "ready, go," and you will then write each answer on the dotted line after the = sign. The examiner will say "stop" after 1½ minutes. You may not be able to finish all of them, but do as many as you can in the time allowed. Do any figuring on the page that you want to. The first two additions in each column are already done as they should be.

	Column 1	Column 2	Column 3	Column 4	Column 5
	3+ 4= 7	3+ 4= 7	3+ 4= 7	3+ 4= 7	3+ 4=
	8+ 6= 14	8+ 6= 14	8+ 6= 14	8+ 6= 14	8+ 6= 1
1.	15+ 2=	14+ 4=	13+ 4=	10+ 2=	15+ 3=
2.	23+ 5=	32+ 5=	25+ 3=	24+ 4=	23+ 4=
3.	44+ 4=	23+ 4=	42+ 5=	43+ 5=	32+ 6=
4.	33+ 7=	30+ 4=	45+ 6=	30+ 5=	43+ 7=
5.	10+ 6=	18+ 8=	17+ 7=	27+ 7=	20+ 6=
6.	74+ 9=	54+ 7=	64+ 9=	85+ 8=	75+ 9=
7.	87+ 8=	88+ 9=	76+ 7=	67+ 9=	67+ 8=
8.	31+17=	41+16=	31+18=	51+17=	51+16=
9.	54+13=	55+13=	52+16=	33+14=	32+15=
10.	93+32=	92+34=	93+23=	92+33=	92+24=
11.	45+26=	36+25=	44+28=	30+20=	40+25=
12.	79+17=	59+27=	69+17=	57+28=	67+19=
13.	58+40=	48+56=	55+48=	68+30=	65+38=
14.	125+39=	127+57=	128+38=	129+45=	147+27=
15.	108+28=	105+29=	149+20=	178+18=	109+20=
16.	174+67=	184+37=	168+67=	189+42=	173+68=
17.	239+82=	259+72=	254+79=	306+59=	287+74=
18.	400+67=	308+67=	457+80=	474+97=	408+69=
19.	324+130=	420+135=	340+124=	437+133=	343+127=
20.	375+147=	378+170=	485+169=	308+179=	470+198=
21.	579+274=	595+208=	679+277=	597+248=	689+245=
22.	668+455=	678+450=	663+578=	690+558=	670+569=
23.	959+370=	894+579=	868+579=	887+395=	897+584=
24.	1,282+879=	1,787+438=	1,487+664=	1,307+794=	1,457+678=

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Date Due

Demco 293-5

BOSTON UNIVERSITY
1 1719 02548 6558

Thesis
Goren, R.
1936

Goren, Rose
What effect has the arithmetic in four general intelligence tests upon the final scores in the tests.

Thesis
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